CONSTRUCTION
INDUSTRY SOLUTION






BUILD ANYTHING ANYWHERE

MSME
MICRO, SMALL & MEDIUM ENTERPRISES

MAHARASHTRA
Maharashtra Pollution Control Board
महाराष्ट्र प्रदूषण नियंत्रण मंडळ

IS 9103
L-7800113509

CIDCO
WE MAKE CITIES

INTERNATIONAL IAF ACCREDITATION FORUM

International Organization for Standardization ISO 45001:2018

International Organization for Standardization ISO 14001

International Organization for Standardization ISO 9001:2015

ADVANCED LABROTORY

''At CIS Infrachemicals, we specialize in providing top-of-the-line construction chemicals and innovative solutions for the industry. Our dedication to quality and excellence has earned us a reputation as a leading supplier in the market. Our advanced laboratory allows us to develop and produce

QUALITY MANAGMENT

we are dedicated to providing our clients with the highest quality construction chemicals available. Our exceptional quality management system ensures that each product meets the strictest standards in the industry, leaving our customers with peace of mind and confidence in the strength and durability of the structures they build.

PROTECTING ENVIROMENT

we take pride in our commitment to protecting the environment. Our team of experts has developed a range of construction chemicals designed to not only meet the highest standards of quality and performance but also adhere to strict environmental regulations. We believe that environmental sustainability and effective construction can go hand in hand, and we strive to provide products that are both eco-friendly and effective.

ABOUT US

CIS Infrachemicals is a leading company in the construction chemicals industry, known for its quality, innovation, and professionalism. We prioritize our clients' needs and pride ourselves in offering reliable and sustainable solutions for all construction projects. Our products are versatile and cater to a wide range of applications, ensuring that we have something to suit all needs. Contact us today to learn more about our products and services, and let us help you make your construction projects more efficient and sustainable.

At CIS Infrachemicals, we specialize in providing top-quality construction chemicals to our customers. We understand the importance of using products that are reliable, durable, and safe for both the environment and those using them. Our team is composed of experts in construction science and engineering, who work together to ensure that every product we provide meets the highest standards of quality and effectiveness.

We have been in business for several years and have established ourselves as a leading provider of construction chemicals, serving customers in a wide range of industries, including government, commercial, and residential construction. Our products are designed to improve the durability, strength, and safety of your construction projects, making them more efficient and cost-effective. Whether you need sealants, adhesives, coatings, or other types of chemical solutions, we have you covered.

FROM DIRECTORS,PEN –

Welcome to **CIS INFRACHEMICALS**

Our Director, Mrs. Neetu Shukla, strongly believes in putting the customer first.

we are the leading supplier of high-quality construction chemicals in the market. Our products are specifically designed to withstand harsh environmental conditions, ensuring long-lasting and durable construction. We understand that every construction project is unique, and we work with our clients to provide tailored solutions that fit their specific needs.

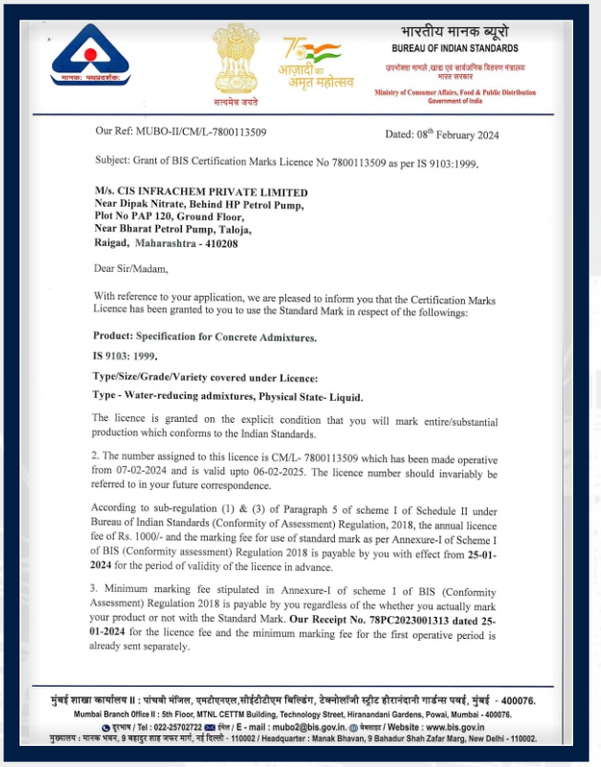
CIS infrachemicals , believes in providing our clients with the best possible experience by ensuring the quality of our products and services. Reach out to us today to learn more about how we can help you achieve your goals. We have a broad range of chemicals, each with a specific purpose, and we are committed to providing the best solutions to our clients.

At CIS Infrachemicals, we pride ourselves on being pioneers in the development of construction chemical technologies. Our products meet the highest quality standards and are backed by extensive research and development. With our years of industry experience and expertise in chemical engineering, we are committed to providing our clients with the best possible solutions.

Sincerely,
MRS. NEETU SHUKLA,
Director

CERTIFICATIONS

BUREAU OF INDIAN STANDARDS



भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS

Our Ref: MUBO-II/CM/L-7800113509 Dated: 08th February 2024

Subject: Grant of BIS Certification Marks Licence No 7800113509 as per IS 9103:1999.

M/s. CIS INFRACHEM PRIVATE LIMITED
Near Dipak Nitrate, Behind HP Petrol Pump,
Plot No PAP 120, Ground Floor,
Near Bharat Petrol Pump, Taloja,
Raigad, Maharashtra - 410208

Dear Sir/Madam,

With reference to your application, we are pleased to inform you that the Certification Marks Licence has been granted to you to use the Standard Mark in respect of the followings:

Product: Specification for Concrete Admixtures.

IS 9103: 1999,

Type/Size/Grade/Variety covered under Licence:

Type - Water-reducing admixtures, Physical State- Liquid.

The licence is granted on the explicit condition that you will mark entire/substantial production which conforms to the Indian Standards.

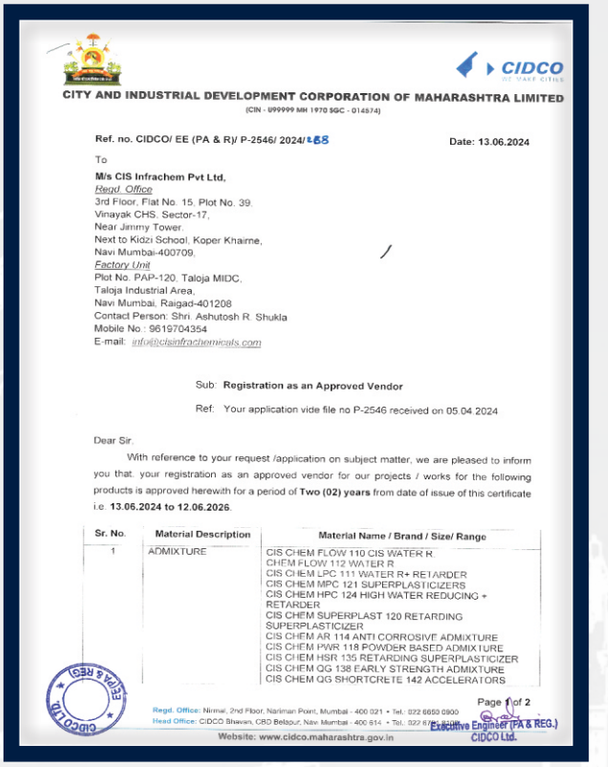
2. The number assigned to this licence is CM/L- 7800113509 which has been made operative from 07-02-2024 and is valid upto 06-02-2025. The licence number should invariably be referred to in your future correspondence.

According to sub-regulation (1) & (3) of Paragraph 5 of scheme I of Schedule II under Bureau of Indian Standards (Conformity of Assessment) Regulation, 2018, the annual licence fee of Rs. 1000/- and the marking fee for use of standard mark as per Annexure-I of Scheme I of BIS (Conformity assessment) Regulation 2018 is payable by you with effect from **25-01-2024** for the period of validity of the licence in advance.

3. Minimum marking fee stipulated in Annexure-I of scheme I of BIS (Conformity Assessment) Regulation 2018 is payable by you regardless of the whether you actually mark your product or not with the Standard Mark. **Our Receipt No. 78PC2023001313 dated 25-01-2024** for the licence fee and the minimum marking fee for the first operative period is already sent separately.

मुंबई शाखा कार्यालय II : पांचवी मंजिल, एमटीएनएल,सीईटीटीएम बिल्डिंग, टेक्नोलॉजी स्ट्रीट हीरानंदानी गार्डन्स पवई, मुंबई - 400076.
Mumbai Branch Office II : 5th Floor, MTNL CETTM Building, Technology Street, Hiranandani Gardens, Powai, Mumbai - 400076.
मुख्यालय : मानक भवन, 9 बहादुर शाह जफर मार्ग, नई दिल्ली - 110002 / Headquarter : Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi - 110002.

CIDCO



CITY AND INDUSTRIAL DEVELOPMENT CORPORATION OF MAHARASHTRA LIMITED
(CIN - U99999 MH 1970 SGC - 014574)

Ref. no. CIDCO/ EE (PA & R)/ P-2546/ 2024/488 **Date: 13.06.2024**

To
M/s CIS Infrachem Pvt Ltd,
Regd. Office
3rd Floor, Flat No. 15, Plot No. 39,
Vinayak CHS, Sector-17,
Near Jimmy Tower,
Next to Kidzi School, Koper Khairne,
Navi Mumbai-400709.
Factory Unit
Plot No. PAP-120, Taloja MIDC,
Taloja Industrial Area,
Navi Mumbai, Raigad-401208
Contact Person: Shri. Ashutosh R. Shukla
Mobile No.: 9619704354
E-mail: *info@cisinfrachemicals.com*

Sub: **Registration as an Approved Vendor**

Ref: Your application vide file no P-2546 received on 05.04.2024

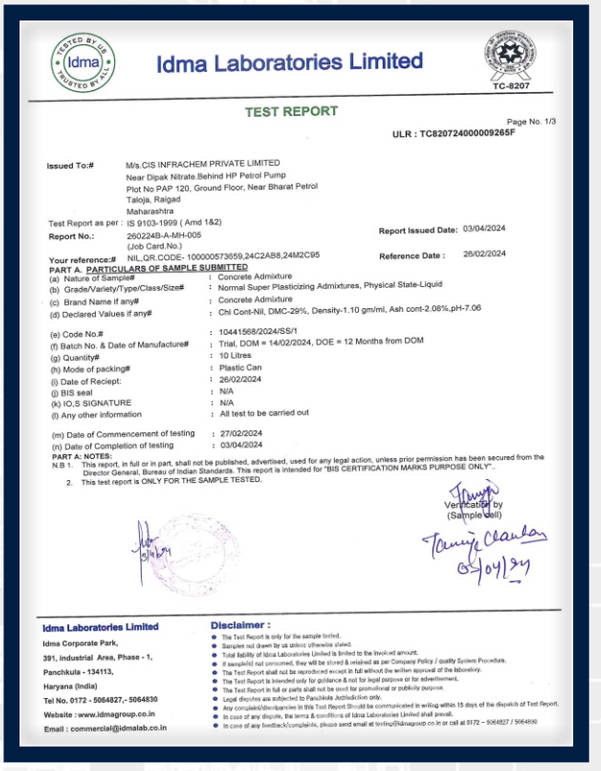
Dear Sir,

With reference to your request /application on subject matter, we are pleased to inform you that, your registration as an approved vendor for our projects / works for the following products is approved herewith for a period of **Two (02) years** from date of issue of this certificate i.e. **13.06.2024 to 12.06.2026.**

Sr. No.	Material Description	Material Name / Brand / Size/ Range
1	ADMIXTURE	CIS CHEM FLOW 110 CIS WATER R CHEM FLOW 112 WATER R CIS CHEM LPC 111 WATER R+ RETARDER CIS CHEM MPC 121 SUPERPLASTICIZERS CIS CHEM HPC 124 HIGH WATER REDUCING + RETARDER CIS CHEM SUPERPLAST 120 RETARDING SUPERPLASTICIZER CIS CHEM AR 114 ANTI CORROSIVE ADMIXTURE CIS CHEM PWR 118 POWDER BASED ADMIXTURE CIS CHEM HSR 135 RETARDING SUPERPLASTICIZER CIS CHEM QG 138 EARLY STRENGTH ADMIXTURE CIS CHEM QG SHORTCRETE 142 ACCELERATORS

Page 1 of 2
Regd. Office: Nirmal, 2nd Floor, Nariman Point, Mumbai - 400 021 • Tel.: 022 6650 0800
Head Office: CIDCO Bhavan, CBD Belapur, Navi Mumbai - 400 614 • Tel.: 022 67
Website: www.cidco.maharashtra.gov.in
Executive Engineer (PA & REG.)
CIDCO Ltd.

GOVT. LAB TEST REPORT



Idma Laboratories Limited
TC-8207

TEST REPORT
Page No. 1/3
ULR : TC820724000009265F

Issued To:# M/s.CIS INFRACHEM PRIVATE LIMITED
Near Dipak Nitrate,Behind HP Petrol Pump
Plot No PAP 120, Ground Floor, Near Bharat Petrol
Taloja, Raigad
Maharashtra

Test Report as per : IS 9103-1999 (Amd 1&2)
Report No.: 260224B-A-MH-005 (Job Card.No.)
Report Issued Date: 03/04/2024
Your reference:# NIL,QR.CODE- 100000573659,24C2AB8,24M2C95
Reference Date : 26/02/2024

PART A. PARTICULARS OF SAMPLE SUBMITTED

(a) Nature of Sample#	:	Concrete Admixture
(b) Grade/Variety/Type/Class/Size#	:	Normal Super Plasticizing Admixtures, Physical State-Liquid
(c) Brand Name if any#	:	Concrete Admixture
(d) Declared Values if any#	:	Chl Cont-Nil, DMC-29%, Density-1.10 gm/ml, Ash cont-2.08%,pH-7.06
(e) Code No.#	:	10441568/2024/SS/1
(f) Batch No. & Date of Manufacture#	:	Trial, DOM = 14/02/2024, DOE = 12 Months from DOM
(g) Quantity#	:	10 Litres
(h) Mode of packing#	:	Plastic Can
(i) Date of Reciept:	:	26/02/2024
(j) BIS seal	:	N/A
(k) IO,S SIGNATURE	:	N/A
(l) Any other information	:	All test to be carried out
(m) Date of Commencement of testing	:	27/02/2024
(n) Date of Completion of testing	:	03/04/2024

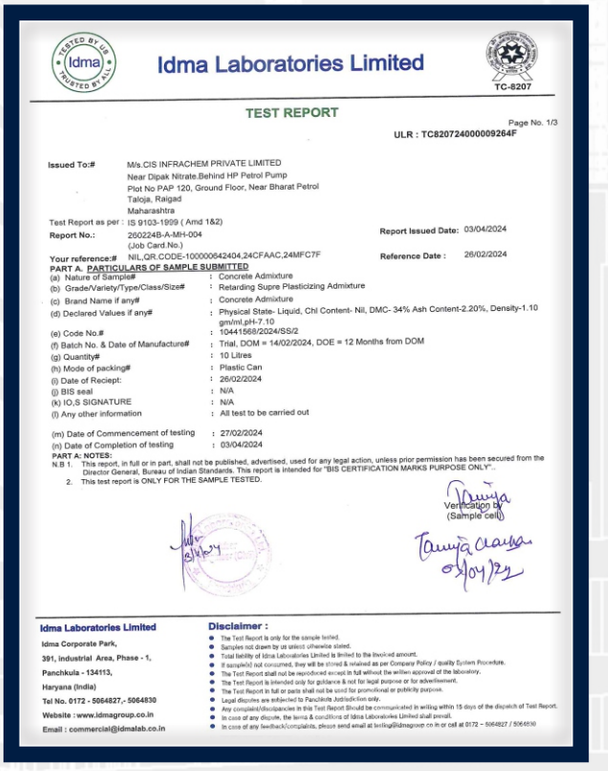
PART A: NOTES:
N.B 1. This report, in full or in part, shall not be published, advertised, used for any legal action, unless prior permission has been secured from the Director General, Bureau of Indian Standards. This report is intended for "BIS CERTIFICATION MARKS PURPOSE ONLY".
2. This test report is ONLY FOR THE SAMPLE TESTED.

Verification by (Sample cell)

Idma Laboratories Limited
Idma Corporate Park,
391, industrial Area, Phase - 1,
Panchkula - 134113,
Haryana (India)
Tel No. 0172 - 5064827,- 5064830
Website : www.idmagroup.co.in
Email : commercial@idmalab.co.in

Disclaimer :
- The Test Report is only for the sample tested.
- Samples not drawn by us unless otherwise stated.
- Total liability of Idma Laboratories Limited is limited to the invoiced amount.
- If sample(s) not consumed, they will be stored & retained as per Company Policy / quality System Procedure.
- The Test Report shall not be reproduced except in full without the written approval of the laboratory.
- The Test Report is intended only for guidance & not for legal purpose or for advertisement.
- The Test Report in full or parts shall not be used for promotional or publicity purpose.
- Legal disputes are subjected to Panchkula Jurisdiction only.
- Any complaint/discrepancies in this Test Report Should be communicated in writing within 15 days of the dispatch of Test Report.
- In case of any dispute, the terms & conditions of Idma Laboratories Limited shall prevail.
- In case of any feedback/complaints, please send email at tsrlhq@idmagroup.co.in or call at 0172 – 5064827 / 5064830

GOVT. LAB TEST REPORT



Idma Laboratories Limited
TC-8207

TEST REPORT
Page No. 1/3
ULR : TC820724000009264F

Issued To:# M/s.CIS INFRACHEM PRIVATE LIMITED
Near Dipak Nitrate,Behind HP Petrol Pump
Plot No PAP 120, Ground Floor, Near Bharat Petrol
Taloja, Raigad
Maharashtra

Test Report as per : IS 9103-1999 (Amd 1&2)
Report No.: 260224B-A-MH-004 (Job Card.No.)
Report Issued Date: 03/04/2024
Your reference:# NIL,QR.CODE-100000642404,24CFAAC,24MFC7F
Reference Date : 26/02/2024

PART A. PARTICULARS OF SAMPLE SUBMITTED

(a) Nature of Sample#	:	Concrete Admixture
(b) Grade/Variety/Type/Class/Size#	:	Retarding Supre Plasticizing Admixture
(c) Brand Name if any#	:	Concrete Admixture
(d) Declared Values if any#	:	Physical State- Liquid, Chl Content- Nil, DMC- 34% Ash Content-2.20%, Density-1.10 gm/ml,pH-7.10
(e) Code No.#	:	10441568/2024/SS/2
(f) Batch No. & Date of Manufacture#	:	Trial, DOM = 14/02/2024, DOE = 12 Months from DOM
(g) Quantity#	:	10 Litres
(h) Mode of packing#	:	Plastic Can
(i) Date of Reciept:	:	26/02/2024
(j) BIS seal	:	N/A
(k) IO,S SIGNATURE	:	N/A
(l) Any other information	:	All test to be carried out
(m) Date of Commencement of testing	:	27/02/2024
(n) Date of Completion of testing	:	03/04/2024

PART A: NOTES:
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Verification by (Sample cell)

Idma Laboratories Limited
Idma Corporate Park,
391, industrial Area, Phase - 1,
Panchkula - 134113,
Haryana (India)
Tel No. 0172 - 5064827,- 5064830
Website : www.idmagroup.co.in
Email : commercial@idmalab.co.in

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- In case of any feedback/complaints, please send email at tsrlhq@idmagroup.co.in or call at 0172 – 5064827 / 5064830

CERTIFICATIONS

ISO 14001:2015

BQC ASSESSMENT

CERTIFICATE

This is to certify that the
Environmental Management System of

CIS INFRACHEM PRIVATE LIMITED

Office: 3rd Floor, Flat No. 15, Plot No. 39, Vinayak CHS, Sector 17, Near Jimmy Tower Next to Kidzi School, Koper Khairne, Navi Mumbai -400709, Maharashtra, India

Factory: Plot No. PAP 120, Near Deepak Fertilizer, Taloja MIDC, Raigad, Navi Mumbai 410208, Maharashtra, India

has been found to comply with

ISO 14001:2015

This certificate is applicable to the following scope:

Manufacturing & Trading of Water Proofing and Admixture Chemicals

Certificate No :: I-ESC202210012

Date of Initial Registration	12 October 2022
Surveillance Audit on/before	12 September 2023
Certificate Expiry	11 October 2023
Recertification Due	11 October 2025

*The scope is as per IAF Code : 12

Authorized Signatory
BQC ASSESSMENT PRIVATE LIMITED

MANAGEMENT SYSTEM CERTIFICATE

BQC Assessment Pvt. Ltd. is accredited by International Accreditation Services (IAS), United States of America vide MSCB Number 124.

ISO 9001:2015

BQC ASSESSMENT

CERTIFICATE

This is to certify that the
Quality Management System of

CIS INFRACHEM PRIVATE LIMITED

Office: 3rd Floor, Flat No. 15, Plot No. 39, Vinayak CHS, Sector 17, Near Jimmy Tower Next to Kidzi School, Koper Khairne, Navi Mumbai -400709, Maharashtra, India

Factory: Plot No. PAP 120, Near Deepak Fertilizer, Taloja MIDC, Raigad, Navi Mumbai 410208, Maharashtra, India

has been found to comply with

ISO 9001:2015

This certificate is applicable to the following scope:

Manufacturing & Trading of Water Proofing and Admixture Chemicals

Certificate No :: I-QSC202210022

Date of Initial Registration	12 October 2022
Surveillance Audit on/before	12 September 2023
Certificate Expiry	11 October 2023
Recertification Due	11 October 2025

*The scope is as per IAF Code : 12

Authorized Signatory
BQC ASSESSMENT PRIVATE LIMITED

MANAGEMENT SYSTEM CERTIFICATE

BQC Assessment Pvt. Ltd. is accredited by International Accreditation Services (IAS), United States of America vide MSCB Number 124.

ISO 45001:2018

ICV

Certificate of Registration

This Certificate certify that the Management System of

CIS INFRACHEM PRIVATE LIMITED

Near Jimmy Tower Next to Kidzi School, Third Floor, Flat No.15, Vinayak CHS, Sector 17, Plot No. 39, Koper Khairne, Navi Mumbai, Thane, Maharashtra - 400709, India.

has been audited by ICV and found to be
in compliance with the requirements of the standard

ISO 45001 : 2018

(Occupational Health and Safety Management Systems)

This certificate is valid for
the following scope:

Manufacturing of Construction Chemicals.

Certificate No.	:IN/63413177/8589
Certificate Issue Date	:09/05/2024
1st Surveillance Due	:09/04/2025
2nd Surveillance Due	:09/04/2026
Date of Expiry	:08/05/2027

CEO
ICV ASSESSMENTS PVT. LTD.
25, First Floor, Prabhu Complex, Shiva Market, Pitampura New Delhi - 110034
+91 - 11-41548315, info@icvassessments.com, www.icvassessments.com

• Validity of this Certificate is subject to completion of surveillance audit on or before of due date. In case Surveillance audit not allowed to be conducted this Certificate shall be suspended / withdrawal.
• This Certificate is intellectual Property of ICV and Certificate should be returned to ICV in case of non

MPCB

MAHARASHTRA POLLUTION CONTROL BOARD

Tel: 022- 27572739
Fax: 022- 27571586
Website: http://mpcb.gov.in
Email: ronavimumbai@mpcb.gov.in

Maharashtra Pollution Control Board, Raigad Bhavan, 7th floor, Sector - 11, C.B.D Belapur, Navi Mumbai

ORANGE/S.S.I ()
No:- Format1.0/RO/UAN No.0000139943/CO/2206000908

Date: 17/06/2022

To,
M/s. CIS Infrachem Pvt. Ltd.
Plot No. PAP-120, MIDC Taloja,
Village-Tondare,
Tal- Panvel, Dist- Raigad - 410208.

Your Service is Our Duty

Sub: Application for grant of Consent to 1st Operate

Ref: Consent No.RO Navi Mmbai/UAN No.100264/CE/21022000551 dated 9/2/2021

Your application No.MPCB-CONSENT-0000139943 Dated 27.05.2022

For: grant of Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6 of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules 2016 is considered and the consent is hereby granted subject to the following terms and conditions and as detailed in the schedule I, II, III & IV annexed to this order:

1. **Consent is granted for period upto 30/6/2028**
2. **The capital investment of the project is Rs.0.2475 Crs. (As per C.A Certificate submitted by industry)**
3. **Consent is valid for the manufacture of:**

Sr No	Product	Maximum Quantity	UOM
Products			
1	Manufacturing of Construction Chemicals (Mixing only)	300	Ton/M

4. **Conditions under Water (P&CP), 1974 Act for discharge of effluent:**

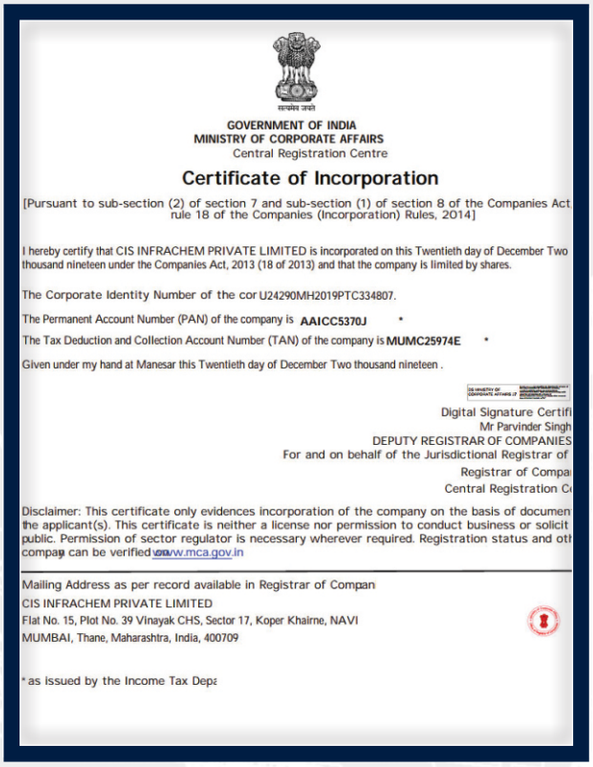
Sr No	Description	Permitted (in CMD)	Standards to	Disposal Path
1.	Trade effluent	0	As per Schedule-I	Not Applicable
2.	Domestic effluent	0.3	As per Schedule-I	Soaked in soak pit

5. **Conditions under Air (P& CP) Act, 1981 for air emissions:**

Sr No.	Stack No.	Description of stack / source	Number of Stack	Standards to be achieved
1	0	0	0	As per Schedule -II

CERTIFICATIONS

CERTIFICATE OF INCORPORATION



GOVERNMENT OF INDIA
MINISTRY OF CORPORATE AFFAIRS
Central Registration Centre

Certificate of Incorporation

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that CIS INFRACHEM PRIVATE LIMITED is incorporated on this Twentieth day of December Two thousand nineteen under the Companies Act, 2013 (18 of 2013) and that the company is limited by shares.

The Corporate Identity Number of the cor U24290MH2019PTC334807.

The Permanent Account Number (PAN) of the company is **AAICC5370J** *

The Tax Deduction and Collection Account Number (TAN) of the company is **MUMC25974E** *

Given under my hand at Manesar this Twentieth day of December Two thousand nineteen .

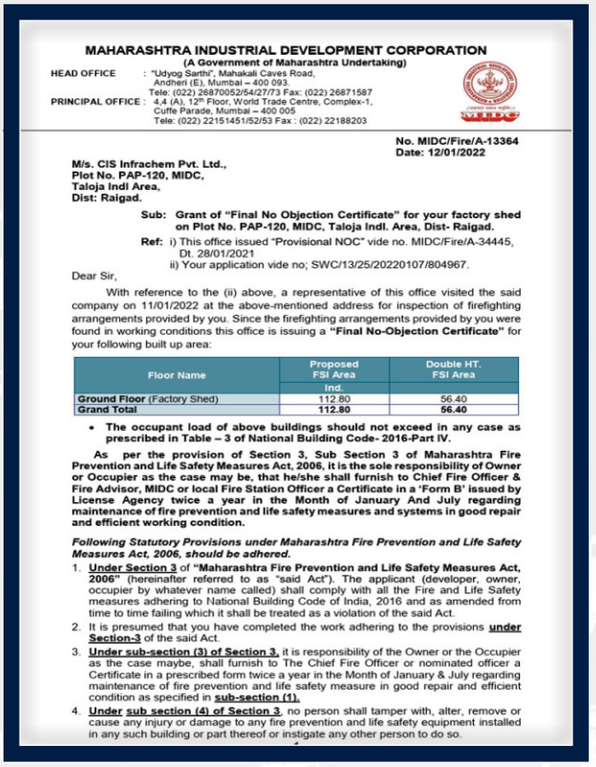
Digital Signature Certifi
Mr Parvinder Singh
DEPUTY REGISTRAR OF COMPANIES
For and on behalf of the Jurisdictional Registrar of
Registrar of Compa
Central Registration C

Disclaimer: This certificate only evidences incorporation of the company on the basis of documen the applicant(s). This certificate is neither a license nor permission to conduct business or solicit public. Permission of sector regulator is necessary wherever required. Registration status and oth compan can be verified on www.mca.gov.in

Mailing Address as per record available in Registrar of Compan
CIS INFRACHEM PRIVATE LIMITED
Flat No. 15, Plot No. 39 Vinayak CHS, Sector 17, Koper Khairne, NAVI
MUMBAI, Thane, Maharashtra, India, 400709

* as issued by the Income Tax Depa

FIRE NOC



MAHARASHTRA INDUSTRIAL DEVELOPMENT CORPORATION
(A Government of Maharashtra Undertaking)

HEAD OFFICE : "Udyog Sarthi", Mahakali Caves Road, Andheri (E), Mumbai – 400 093.
Tele: (022) 26870052/54/27/73 Fax: (022) 26871587
PRINCIPAL OFFICE : 4,4 (A), 12th Floor, World Trade Centre, Complex-1, Cuffe Parade, Mumbai – 400 005.
Tele: (022) 22151451/52/53 Fax : (022) 22188203

No. MIDC/Fire/A-13364
Date: 12/01/2022

M/s. CIS Infrachem Pvt. Ltd.,
Plot No. PAP-120, MIDC,
Taloja Indl Area,
Dist: Raigad.

Sub: Grant of "Final No Objection Certificate" for your factory shed on Plot No. PAP-120, MIDC, Taloja Indl. Area, Dist- Raigad.

Ref: i) This office issued "Provisional NOC" vide no. MIDC/Fire/A-34445, Dt. 28/01/2021
ii) Your application vide no; SWC/13/25/20220107/804967.

Dear Sir,

With reference to the (ii) above, a representative of this office visited the said company on 11/01/2022 at the above-mentioned address for inspection of firefighting arrangements provided by you. Since the firefighting arrangements provided by you were found in working conditions this office is issuing a **"Final No-Objection Certificate"** for your following built up area:

Floor Name	Proposed FSI Area	Double HT. FSI Area
	Ind.	
Ground Floor (Factory Shed)	112.80	56.40
Grand Total	**112.80**	**56.40**

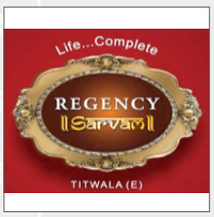
- **The occupant load of above buildings should not exceed in any case as prescribed in Table – 3 of National Building Code- 2016-Part IV.**

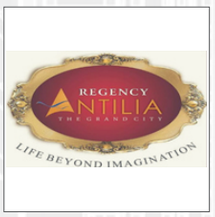
As per the provision of Section 3, Sub Section 3 of Maharashtra Fire Prevention and Life Safety Measures Act, 2006, it is the sole responsibility of Owner or Occupier as the case may be, that he/she shall furnish to Chief Fire Officer & Fire Advisor, MIDC or local Fire Station Officer a Certificate in a 'Form B' issued by License Agency twice a year in the Month of January And July regarding maintenance of fire prevention and life safety measures and systems in good repair and efficient working condition.

Following Statutory Provisions under Maharashtra Fire Prevention and Life Safety Measures Act, 2006, should be adhered.

1. **Under Section 3** of **"Maharashtra Fire Prevention and Life Safety Measures Act, 2006"** (hereinafter referred to as "said Act"). The applicant (developer, owner, occupier by whatever name called) shall comply with all the Fire and Life Safety measures adhering to National Building Code of India, 2016 and as amended from time to time failing which it shall be treated as a violation of the said Act.
2. It is presumed that you have completed the work adhering to the provisions **under Section-3** of the said Act.
3. **Under sub-section (3) of Section 3,** it is responsibility of the Owner or the Occupier as the case maybe, shall furnish to The Chief Fire Officer or nominated officer a Certificate in a prescribed form twice a year in the Month of January & July regarding maintenance of fire prevention and life safety measure in good repair and efficient condition as specified in **sub-section (1).**
4. **Under sub section (4) of Section 3**, no person shall tamper with, alter, remove or cause any injury or damage to any fire prevention and life safety equipment installed in any such building or part thereof or instigate any other person to do so.

OUR VALUABLE CLIENTS





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CIS CHEM FLOW -110

WATER REDUCING ADMIXTURE

PRODUCT CATEGORY: NAPTHALENE BASED ADMIXTURE

PRODUCT DISCRIPTION

CIS CHEM FLOW 110 is a brown liquid ready to use concrete Super plasticizer for high range water reducing concrete.
Confirming to the specification of ASTM C-494 type G and IS 9103-1999 (Amendment 2003)

USES

CIS CHEM FLOW 110 facilitates excellent water reduction, with optimum cohesion and workability as required, just by adjusting the dosage. It is used mainly to the following types of concrete:

- Precast concrete structures in general
- Precast concrete tunnel segments
- Pre-stressed concrete elements
- Post-tensioned concrete bridge segments
- Piles, foundations, retaining walls etc.
- Concrete with high water reduction that requires high workability, slump retention along with high early strength development
- Blocks and Interlocks

CHARACTERISTICS / ADVANTAGES

CIS CHEM FLOW 110 acts by surface absorption on the cement particles producing satirical hindrance as well as electrostatic repulsion between cement particles which results in higher dispersion, flow and retention. CIS CHEM FLOW 110 provides the following beneficial properties:

- Increased working time Early strength development resulting in economic stripping time for pre-cast and in cast-situe concrete
- High water reduction resulting in high density, high strength and reduced water permeability
- Excellent plasticizing effect giving improved flowability, placing and compaction behavior
- Improved surface finish
- Better shrinkage and creep behaviour
- Low risk of segregation Reduces energy costs for steam cured pre-cast elements
- Does not contain chlorides or other steel corrosion promoting ingredient to produce pumpable concrete
- Better Slump Retention, to achieve pumpable concrete. Compatible with all types of cement.

CIS CHEM FLOW -110

WATER REDUCING ADMIXTURE

PRODUCT CATEGORY: NAPTHALENE BASED ADMIXTURE

PRODUCT INFORMATION

Composition	Modified Naphthalene Formaldehyde Sulphonate
Packaging	220 KG
Appearance / Colour	Light brown to brown liquid
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost
Density	1.20 ± 0.05 kg/l at 30 0C
Total chloride ion content	Nil (EN 934-2)
Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using CIS CHEM FLOW 110 in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying

APPLICATION INFORMATION

Recommended dosage	0.4 - 2.0 % by weight of binder Higher dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	CIS CHEM FLOW 110 may be combined with all types of Portland cement We recommend to perform trial mixes to establish the required performance when combined with the above products. Please consult our CIS Technical Department.

HEALTH AND SAFETY

CIS CHEM FlOW 110 should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes it shall be rinsed immediatewith plenty of water and medical advice sought immediately. If swallowed, medical attention shall be sought immediately. Vomiting should not be used.

CIS CHEM FLOW -112

HIGH WATER REDUCING ADMIXTURE

PRODUCT CATEGORY: NAPTHALENE BASED ADMIXTURE

PRODUCT DISCRIPTION

CIS CHEM FLOW 112 IS SNF based super plasticizing admixture having water reduction capacity up to 20% for structural concrete PQC
Great effect in dispersion even in mixes with high fines high workability for longer periods lower pumping pressure resistance to sagrigation even at high workability extended setting with longer workability reduces wate content for a given workability can be achive 26 – 28% water reduction with optium dosage of admixture reduce rate of workability loss normally associated with super plasticizer reduces shrinking cracking because of lower water content ratio makes the concrete water imermable higher ultimate strength incrased ease in finishing concrete

USES

CIS CHEM FLOW 112 facilitates excellent water reduction, with optimum cohesion and workability as required, just by adjusting the dosage. It is used mainly to the following types of concrete:

- Precast concrete structures in general
- Precast concrete tunnel segments
- Pre-stressed concrete elements
- Post-tensioned concrete bridge segments
- Piles, foundations, retaining walls etc.
- Concrete with high water reduction that requires high workability, slump retention along with high early strength development
- Blocks and Interlocks

CHARACTERISTICS / ADVANTAGES

CIS CHEMFLOW 112 SNF based super plasticizer admixture having water retention capacity uo to 20%
. CIS CHEM FLOW 112 provides the following beneficial properties:
▪ Increased working time Early strength development resulting in economic stripping time for pre-cast and in cast-situe concrete
▪ High water reduction resulting in high density, high strength and reduced water permeability
▪ Excellent plasticizing effect giving improved flowability, placing and compaction behavior
▪ Improved surface finish
▪ Better shrinkage and creep behaviour
▪ Low risk of segregation Reduces energy costs for steam cured pre-cast elements ▪ Does not contain chlorides or other steel corrosion promoting ingredient
▪ to produce pumpable concrete
▪ Better Slump Retention, to achieve pumpable concrete. Compatible with all types of cement.

CIS CHEM FLOW -112

HIGH WATER REDUCING ADMIXTURE

PRODUCT CATEGORY: NAPTHALENE BASED ADMIXTURE

PRODUCT INFORMATION

Composition	Modified Naphthalene Formaldehyde Sulphonate
Packaging	250 KG
Appearance / Colour	Light brown to brown liquid
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost
Density	1.22 ± 0.05 kg/l at 30 0C
Total chloride ion content	Nil (EN 934-2)
Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using CIS CHEM FLOW 112 in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying

APPLICATION INFORMATION

Recommended dosage	0.4 - 2.0 % by weight of binder Higher dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	CIS CHEM FLOW 112 may be combined with all types of Portland cement We recommend to perform trial mixes to establish the required performance when combined with the above products. Please consult our CIS Technical Department.

HEALTH AND SAFETY

CISCHEM FIOW 112 should not be swallowed or allowed to come into contact with skin and eyes. Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with eyes it shall be rinsed immediately with plenty of water and medical advice sought immediately. If swallowed, medical attention shall be sought immediately. Vomiting should not be used.

CIS CHEM LPC -120

POLYCARBOXLIC BASED ADMIXTURE FOR CONCREATE

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT DISCRIPTION

CIS LPC – 120 Is Polycarboxylic Ether Based Plasticizer CIS LPC – 120 Is Brown /Yellowish Coloured Polycarboxylic Either Based New Generation Hyper Plasticizer Conforming To EN Specification ,Development For Specific Application In High Performance Concrete . The Hyper Dispersion Effect PRODUCT By CIS LPC – 120 Exibits Better Durability And Performance In Concrete. CIS LPC – 120 Is Compatiable With All Portland Cements And Pozzolonic Materials Conforming To International Standrads.

USES

CIS LPC – 120 Facilitates Excellent Water Reduction, With Optimum Cohesion And Workability As Required, Just By Adjusting The Dosage. It Is Used Mainly To The Following Types Of Concrete:

- Precast Concrete Structures In General
- Precast Concrete Tunnel Segments
- Pre-Stressed Concrete Elements
- Post-Tensioned Concrete Bridge Segments
- Piles, Foundations, Retaining Walls Etc.
- Concrete With High Water Reduction That Requires High Workability, Slump Retention Along With High Early Strength Development
- Blocks And Interlocks

CHARACTERISTICS / ADVANTAGES

CIS LPC – 120 Is Generally Dosed In He Range Of 0.3% To 1% By Weight Of Cement The Dosage Can Be Enhanced To Further 3% As Per Requirement.
But It Is Always Advisory To Go For Trail Mix To Determine The Optimum Dosage .
The Requisite Of CIS LPC – 120 should Be Added After Addition Of Minimum 50 To 70% Of Gauging Water Before Mixing With Wet Cement Agreegate System

CIS CHEM LPC -120

POLYCARBOXLIC BASED ADMIXTURE FOR CONCREATE

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT INFORMATION

Composition	Modified Polycarboxylic Ether
Packaging	220 Kg
Appearance / Colour	Light Brown /Pale Yellow
Shelf life	12 Months From Date Of Production If Stored Properly
Storage conditions	Store In Undamaged, Unopened, Original Sealed Packaging In Dry Conditions At Temperatures Between +5 °C And +45 °C. Protect From Direct Sunlight And Frost
Density	1.08 ± 0.05 gm/l At 30 *C
Total chloride ion content	Nil (EN 934-2)
Concreting guidance	The Standard Rules Of Good Concreting Practice For Production And Placing Must Be Observed When Using CIS CHEM LPC 120 In Concrete. Refer To Relevant Standards. Fresh Concrete Must Be Cured Properly Especially At High Temperatures In Order To Prevent Plastic And Drying

APPLICATION INFORMATION

Recommended dosage	0.4 - 2.0 % By Weight Of Binder Higher Dosages By Weight Of Binder Can Be Used Depending On The Mix Design, Raw Materials, Climatic Conditions And Concrete Requirements. Trial Mixes Must Be Performed To Establish The Exact Dosage Rate Required.
Compatibility	CIS LPC – 120 May Be Combined With All Types Of Portland Cement We Recommend To Perform Trial Mixes To Establish The Required Performance When Combined With The Above Products. Please consult our CIS Technical Department.

HEALTH AND SAFETY

CIS LPC – 120 Should Not Be Swallowed Or Allowed To Come Into Contact With Skin And Eyes. Suitable Protective Gloves And Goggles Should Be Worn. Splashes On The Skin Should Be Removed With Water. In Case Of Contact With Eyes It Shall Be Rinsed Immediately With Plenty Of Water And Medical Advice Sought Immediately. If Swallowed, Medical Attention Shall Be Sought Immediately. Vomiting Should Not Be Used.

CIS CHEM MPC 121

WATER REDUCING AND RETARDING ADMIXTURE

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT DISCRIPTION

CIS MPC 121 Is modrate to high range of water reducing agent for concrete CIS MPC 121 is a polycarboxylate ether based superplasticizer and a new type high range water reducing admixture for concrete grades from M- 20 to M- 60. CIS MPC 121 is designed to provide good work ability without sagration conforming to ASTM C-494 type G ,C-1017 and IS 9103:2003.

USES

- High strenghth concrete
- High slump concreate
- Flowing concreate
- Self consolidating concreate and also for better speific requirments go for our admixture CIS MPC 121

CHARACTERISTICS / ADVANTAGES

- CIS MPC -121 can be used with all types portland cement and other mixed cements include fly ash, ground granulated blast – furnance slag, silica fume and so on
- CIS MPC -121 has higher water reducing ability, and the water reducing rate can be easily cantrolled by changing the dosage
- CIS MPC 121 provides good slump retaining ability
- CIS MPC 121 provides suitable viscosity for concreate and eliminate excessive bleeding and sagregation
- CIS MPC 121 provides good slump retaining ability. CIS MPC 121 is an approprite method to prouduce high durable concrete with high water reducing ability

CIS CHEM MPC 121

WATER REDUCING AND RETARDING ADMIXTURE

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates, co-polymers
Packaging	200 KG
Appearance / Colour	Light yellow liquid
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost
Density	~1.12 GM/Ml (25 °C)
Total chloride ion content	Nil (EN 934-2)
Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using CIS MPC- 121 in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying

APPLICATION INFORMATION

Recommended dosage	0.4 - 2.0 % by weight of binder Higher dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	CIS MPC -121 may be combined with all types of Portland cement We recommend to perform trial mixes to establish the required performance when combined with the above products. Please consult our CIS Technical Department.

HEALTH AND SAFETY

CIS MPC -121 is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant. Do not add CIS MPC -121 directly to the dry mix. For optimum utilization of its high water reduction property we recommend thorough mixing at a minimal wet mixing time of 60 seconds.
The addition of the remaining gauging water (to fine tune concrete consistency) may only be started after two-thirds of the wet mixing time to avoid surplus water in the concrete.

CIS CHEM HPC 124

WATER REDUCING ADMIXTURE

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT DISCRIPTION

CIS CHEM HPC 124 Is modrate to high range of water reducing agent for concrete CIS CHEM HPC 124 is a polycarboxylate ether based superplasticizer and a new type high range water reducing admixture for concrete grades from M- 20 to M- 60. CIS CHEM HPC 124 is designed to provide good work ability without sagration conforming to ASTM C-494 type G ,C-1017 and IS 9103:2003.

USES

- High strenghth concrete
- High slump concreate
- Flowing concreate
- Self consolidating concreate and also for better speific requirments go for our admixture CIS CHEM HPC 124

CHARACTERISTICS / ADVANTAGES

- CIS CHEM HPC 124 can be used with all types portland cement and other mixed cements include fly ash, ground granulated blast – furnance slag ,silica fume and so on
- CIS CHEM HPC 124 has higher water reducing ability ,and the water reducing rate can be easily cantrolled by changing the dosage
- CIS CHEM HPC 124 provides good slump retaining ability
- CIS CHEM HPC 124 provides suitable viscosity for concreate and eliminate excessive bleeding and sagregation
- CIS CHEM HPC 124 provides good slump retaining ability.CIS CHEM HPC 124 is an approprite method to prouduce high durable concrete with high water reducing ability

CIS CHEM HPC 124

WATER REDUCING ADMIXTURE

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates, co-polymers
Packaging	200 KG
Appearance / Colour	Light yellow liquid
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost
Density	~1.11 +/- 0.10 GM/Ml (25 °C)
Total chloride ion content	Nil (EN 934-2)
Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using CIS CHEM HPC 124 in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying

APPLICATION INFORMATION

Recommended dosage	0.4 - 2.0 % by weight of binder Higher dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	CIS CHEM HPC 124 may be combined with all types of Portland cement We recommend to perform trial mixes to establish the required performance when combined with the above products. Please consult our CIS Technical Department.

HEALTH AND SAFETY

CIS CHEM HPC 124 is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant. Do not add CIS CHEM HPC 124 directly to the dry mix. For optimum utilization of its high water reduction property we recommend thorough mixing at a minimal wet mixing time of 60 seconds. The addition of the remaining gauging water (to fine tune concrete consistency) may only be started after two-thirds of the wet mixing time to avoid surplus water in the concrete.

CIS CHEM HSR-135

WATER REDUCING AND RETARDING ADMIXTURE

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT DISCRIPTION

CIS CHEM HSR 135 is a new generation superplasticizer based on polycarboxylic ether along with advanced technology. It allows concrete to achieve stable workability for long duration is especially for concrete big job site area where require high workability retention without affecting early and long term strength

USES

CIS CHEM HSR 135 facilitates good water reduction, with optimum cohesion and workability as required, just by adjusting the dosage. It is used mainly to the following types of concrete:

- Precast concrete structures in general
- Precast concrete tunnel segments
- Pre-stressed concrete elements
- Post-tensioned concrete bridge segments
- Piles, foundations, retaining walls etc.
- Concrete with high water reduction that requires high workability, slump retention along with high early strength development
- Blocks and Interlocks

CHARACTERISTICS / ADVANTAGES

CIS CHEM HSR 135 acts by surface absorption on the cement particles producing sterical hindrance as well as electrostatic repulsion between cement particles which results in higher dispersion, flow and retention. CIS CHEM HSR 135 provides the following beneficial properties:

- Increased working time Early strength development resulting in economic stripping time for pre- cast and in cast-situe concrete
- High water reduction resulting in high density, high strength and reduced water permeability ▪ Excellent plasticizing effect giving improved flowability, placing and compaction behavior
- Improved surface finish
- Better shrinkage and creep behaviour
- Low risk of segregation Reduces energy costs for steam cured pre-cast elements
- Does not contain chlorides or other steel corrosion promoting ingredient

CIS CHEM HSR-135

WATER REDUCING AND RETARDING ADMIXTURE

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates, co-polymers
Packaging	250 KG
Appearance / Colour	Light brown to brown liquid
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost
Density	~1.12 GM/Ml (25 °C)
Total chloride ion content	Nil (EN 934-2)
Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using CIS CHEM HSR 135in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying

APPLICATION INFORMATION

Recommended dosage	0.4 - 2.0 % by weight of binder Higher dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	CIS CHEM HSR 135 may be combined with all types of Portland cement We recommend to perform trial mixes to establish the required performance when combined with the above products. Please consult our CIS Technical Department.

CIS CHEM SUPERPLAST -120

HIGH WATER REDUCING AND WORKABLITY SUPERPLASTICIZER

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT DISCRIPTION

CIS SUPERPLAST 120 is a superplasticiser for concrete. It contains state of the art polycarboxylate ether polymers and is specially formulated to give exceptionally high water reduction and enhances work ability for sprayed concrete mix designs. s a non-chloride liquid admixture, which complies with the requirements of EN 934-2, as a high range water reducer / superplasticising admixture for concrete. is compatible with all cements meeting recognised international standards. requires a lower dosage compared to conventional superplasticisers but provides extreme work ability characteristics for high slump, flowable concrete with greatly reduced water demand.

USES

- High performance concrete
- Improving mixing efficiency during large pour
- Highly flowable concrete
- Highly durable concrete
- High strength concrete
- Ready-mix concretee
- Mass concrete
- Pumped concrete and wet sprayed concrete

CHARACTERISTICS / ADVANTAGES

High water reduction which provides high early and ultimate strengths, low permeability and high durability of the concrete.

- High flow ability provides easy placement and compaction.
- Excellent cohesion, zero segregation and minimal bleed water with extremely high levels of concrete
- Exceptional slump retention and easier placement and delivery control especially under warm climatic conditions.
- High elastic modulus, low shrinkage and creep are achievable using graded coarse and fine aggregates.
- Superior finishes with reduced honeycombing A

CIS CHEM SUPERPLAST -120

HIGH WATER REDUCING AND WORKABLITY SUPERPLASTICIZER

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates, co-polymers
Packaging	250 KG
Appearance / Colour	Light brown to brown liquid
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost
Density	~1.12 GM/Ml (25 °C)
Total chloride ion content	Nil (EN 934-2)
Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using CIS SUPERPLAST 120 In concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying

APPLICATION INFORMATION

Recommended dosage	0.4 - 2.0 % by weight of binder Higher dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	CIS SUPERPLAST 120 may be combined with all types of Portland cement We recommend to perform trial mixes to establish the required performance when combined with the above products. Please consult our CIS Technical Department.

HEALTH AND SAFETY

CIS SUPERPLAST 120 is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant. Do not add CIS SUPERPLAST 120 directly to the dry mix. For optimum utilization of its high water reduction property we recommend thorough mixing at a minimal wet mixing time of 60 seconds. The addition of the remaining gauging water (to fine tune concrete consistency) may only be started after two-thirds of the wet mixingtime to avoid surplus water in the concrete.

CIS CHEM AR-114

CORROSION INHIBITING ADMIXTURE

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT DISCRIPTION

CIS CHEM AR 114 is NON BIOPOLAR nitrite,migrating corrosion inhibiting admixture thatprotects rebars from corrosion induced by chlorideions as well as due to carbonation of concrete.

USES

Steel reinforced concrete in marine zones

- Piers, piles, and concrete dock structures
- RCC structures exposed to corrosive environments
- Bridges, highways, chlorinating plants, sewerage systems
- Adds corrosion inhibition properties to cementitious grouts

CHARACTERISTICS / ADVANTAGES

Simultaneous cathodic and anodic protection of steel

- High penetrating power resulting in total protection of rebars or PT tendons
- No adverse effect on properties of hardened concrete or grout
- Effective even in presence of high amount of chlorides
- Eco-friendly, nitrite and chromate free
- High alkalinity offers additional protection to steel A

CIS CHEM AR-114

CORROSION INHIBITING ADMIXTURE

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT INFORMATION

Composition	Aqueous solution of modified polycarboxylates, co-polymers
Packaging	250 KG
Appearance / Colour	Light YWL
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost
Density	~1.12 GM/Ml (25 °C)
Total chloride ion content	Nil (EN 934-2)
Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using CIS CHEM AR 114 In concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying

APPLICATION INFORMATION

Recommended dosage	0.4 - 2.0 % by weight of binder Higher dosages by weight of binder can be used depending on the mix design, raw materials, climatic conditions and concrete requirements. Trial mixes must be performed to establish the exact dosage rate required.
Compatibility	CIS CHEM AR 114 may be combined with all types of Portland cement We recommend to perform trial mixes to establish the required performance when combined with the above products. Please consult our CIS Technical Department.

HEALTH AND SAFETY

CIS CHEM AR 114 is added to the gauging water or simultaneously poured with it into the concrete mixer at the batching plant. Do not add CIS CHEM AR 114 directly to the dry mix. For optimum utilization of its high water reduction property we recommend thorough mixing at a minimal wet mixing time of 60 seconds.
The addition of the remaining gauging water (to fine tune concrete consistency) may only be started after two-thirds of the wet mixing time to avoid surplus water in the concrete.

CIS CHEM QG -138

RAPID HARDENEING ADMIXTURE FOR CEMENT CONCRETE

PRODUCT CATEGORY: HARDENER ADMIXTURE

PRODUCT DISCRIPTION

CIS CHEM QG 138 is quick setting and rapid hardening admixture for plain cement concrete and mortars .also used in pavment block CIS CHEM QG 138 underwater concrete admixture is a chloride free blend of selected polymers supplied as a fine brown powder.
when added to concrete, CIS CHEM QG 138 produces a gel in the water phase which surrounds the cement particles and other fine components of the concrete mix and protects them from excessive washout both during placement and once the concrete is finally in position. Unlike other anti-washout materials, CIS CHEM QG 138 also contains plasticising agents which counteract the effects of the increased cohesion necessary to minimise washout and allow normal workability levels to be maintained without the addition of extra water.
CIS CHEM QG 138 provides a degree of acceleration to the concrete mix, allows low journey times from batching

USES

dosages outside the typical range suggested above may be used if necessary and suitable to meet particular mix requirements, provided that adequate supervision is available. Compliance with requirements must be assessed through trial mixes. Contact the CIS technical team for advice in these cases.

CHARACTERISTICS / ADVANTAGES

- Increases internal cohesion of the concrete mix, reducing the tendency of cement and other particles to be washed out of the concrete mix during placement
- Facilitates the placement of concrete underwater by normal methods such as tremie pipe delivery
- Once placed, concrete is more resistant to the action of moving water
- Allows the production of higher quality and higher strength concrete underwater
- Contains workability and setting control agents to assist in providing the levels of workability and working life necessary to allow control of placing

CIS CHEM QG -138

RAPID HARDENEING ADMIXTURE FOR CEMENT CONCRETE

PRODUCT CATEGORY: HARDENER ADMIXTURE

LIMITATIONS

CIS CHEM QG 138 will not provide protection against washout in situations where there is a large amount of water turbulence such as where concrete is poured directly into water from a ready-mix truck or where incorrect use of a tremie produces interrupted concrete flow. In such situations water is forcibly mixed with the concrete. Typical dosage the optimum dosage of CIS CHEM QG 138 to meet specific requirements must always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimisation of admixture dosage and mix design and provides a complete assessment of the concrete mix. Such trials should start at a dosage of 1 lit / 100 kg of cement. After initial trials at this dosage, further trials at

STORAGE

CIS CHEM QG 138 has a minimum shelf life of 12 months provided the product is kept in a dry store in the original, unopened packaging.

PRECAUTIONS

Health and safety for further information consult the product safety data sheet available for this product.

PRODUCT INFORMATION

Composition	Modified hybrid pce
Packaging	250 KG
Appearance / Colour	Light yellow to brown liquid
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °c and +45 °c. Protect from direct sunlight and frost
Density	1.22 ± 0.05 kg/l at 30 0c
Total chloride ion content	Nil (EN 934-2)
Concreting guidance	The standard rules of good concreting practice for production and placing must be observed when using CIS CHEM FLOW 110 in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying

CIS CHEM SHORTCRETE -142

ALKALI FREE SHOTCRETE ACCELERATOR

PRODUCT CATEGORY: ACCELERATOR ADMIXTURE

PRODUCT DISCRIPTION

Approval /Standards= ASTM C 1141 Type I,II Grade 9 Class A. Appearance / Colour =Beige white coloured suspension type liquid Technical Data= Mineral based Relative Density= 1.42 ± 0.02 at 25°C pH =2.5 ± 1.0

USES

- Rock and slope stabilization
- High quality shotcrete for general construction work
- Acceleration of cementitious grouts, such as used in TBM Tunnel linings
- Cement ground injections and back filling

USE AT OTHER DOSAGES

Dosages outside the typical range suggested above may be used if necessary and suitable to meet particular mix requirements, provided that adequate supervision is available. Compliance with requirements must be assessed through trial mixes. Contact the CIS technical team for advice in these cases.

STORAGE

CIS CHEM QG 138 has a minimum shelf life of 12 months provided the product is kept in a dry store in the original, unopened packaging.

PRECAUTIONS

Health and safety for further information consult the product safety data sheet available for this product.

CIS CHEM SHORTCRETE -142

ALKALI FREE SHOTCRETE ACCELERATOR

PRODUCT CATEGORY: ACCELERATOR ADMIXTURE

PRODUCT INFORMATION

Composition	Modified COPOLYMER PCE
Packaging	250 KG
Appearance / Colour	Light yellow to brown liquid
Shelf life	12 months from date of production if stored properly
Storage conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between +5 °C and +45 °C. Protect from direct sunlight and frost
Density	1.20 ± 0.05 kg/l at 30 0C
Total chloride ion content	Nil (EN 934-2)

CIS CHEM PP 157

HIGH INTENSITY BUNCHY MONO-FILAMENT FIBER

PRODUCT CATEGORY: PP FIBER

PRODUCT DISCRIPTION

Polypropylene Fiber is a kind of high intensity bunchy mono-filament fiber mainly made of polypropylene by special technique, which could effectively prevent concrete micro-crack, as well as improve concrete performance of anti-crack, anti-infiltration, anti-concussion and anti- shock.

APPLICATION

- Polypropylene fiber into concrete or mortar, could effectively prevent temperature change
- and Micro-crack which is caused by plastic and dry shrinkage.
- Projects like concrete road, bridge, airport road and factory floor which s trictly require cracking resistance.
- They are widely used in roads, bridges, underground waterproof projects and roof, walls,
- pools, basements of civil construction industrial

STORAGE

To be stored in its closed original package, keep cool and dry, avoid humidity.

SPECIFICATION

Material	Polypropylene
Packaging	25kg plastic bag 600grams*40bags inner. (1 kg extra)
Appearance / Colour	White
Elongation at brake %	≥13
Modulus of elasticity (mpa)	≥3200
Density	0.91~0.93
Identical Diameter(μm)	16/18/25/35/other
Tensile Strength	>420

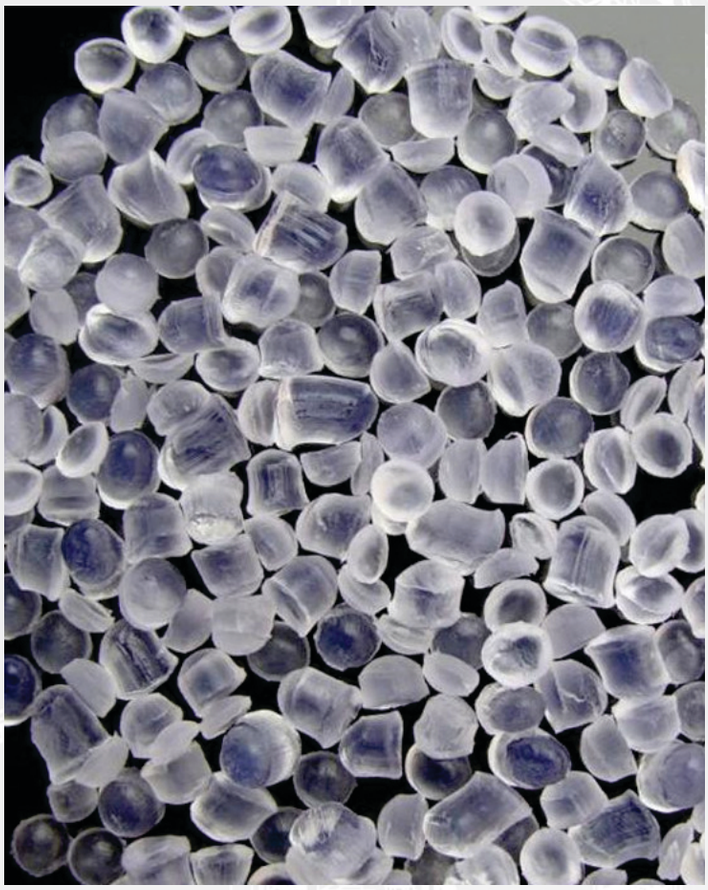
CIS CHEM UYK 7314

HIGH INTENSITY COPOLYMER GLASS FIBER

PRODUCTCATEGORY: GLASS FIBER

PRODUCT DISCRIPTION

CIS CHEM UYK 7314 is a high flow, halogen free flame retardant, copolymer reinforced with 20% long glass fiber, developed for Injection molded applications. This material has been designed to combine a good performance profile with good processing. CIS CHEM UYK 7314 should be dried at 100C for 2 hours before the injection molding. Melt temperature of 240 °C should not be exceeded during processing.



APPLICATION

- CIS CHEM UYK 7314 into concrete or mortar, could effectively prevent temperature change
- and Micro-crack which is caused by plastic and dry shrinkage.
- Projects like concrete road, bridge, airport road and factory floor which strictly require cracking resistance.
- They are widely used in roads, bridges, underground waterproof projects and roof, walls,
- pools, basements of civil construction industrial

SPECIFICATION

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
POLYMER PROPERTIES			
Density	1225	kg/m³	ISO 1183
Glass fibre content	20	%	ISO3451
MECHANICAL PROPERTIES			
Tensile modulus			
at 23 °C	6000	Mpa	ISO 527/1A
at 80 °C	2900	Mpa	ISO 527/1A

CIS CHEM UYK 7314

HIGH INTENSITY COPOLYMER GLASS FIBER

PRODUCTCATEGORY: GLASS FIBER

Tensile strength			
at 23 °C	70	Mpa	ISO 527/1A
at 80 °C	37	Mpa	ISO 527/1A
Tensile elongation at break			
at 23 °C	2.1 %		ISO 527/1A
Flexural Modulus			
at 23 °C	6200	Mpa	ISO 178
at 80 °C	4000	Mpa	ISO 178

PACKING

25kg plastic bag 600grams*40bags inner. (1 kg extra)

STORAGE

To be stored in its closed original package,keep cool and dry, avoid humidity.

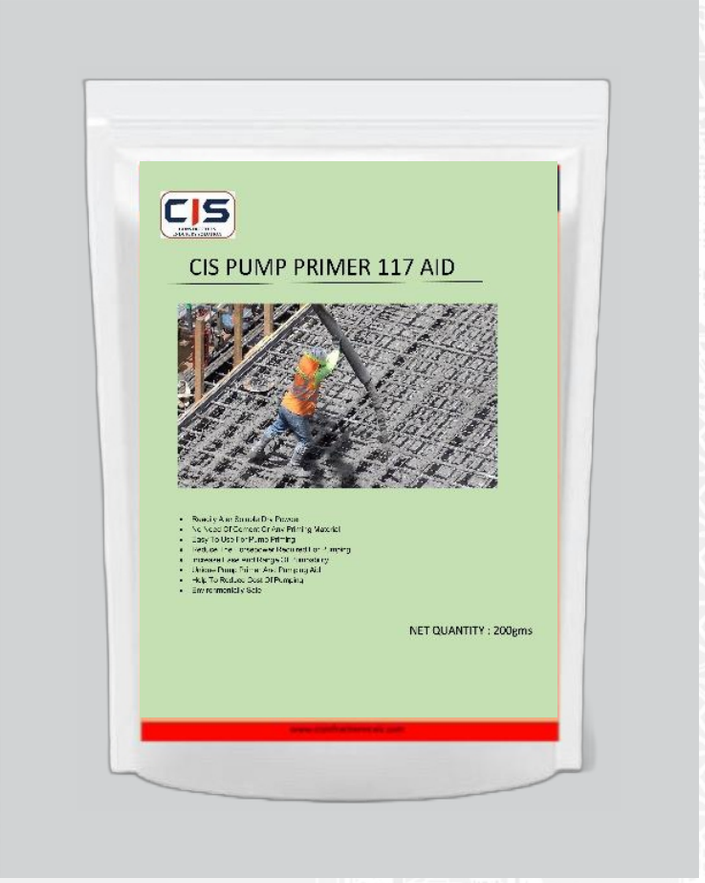
CIS CHEM PUMP PRIMER 117 AID

CONCRETE PUMPING AID

PRODUCT CATEGORY: SLURRY POUCH

PRODUCT DISCRIPTION

Versatile Dry Powdered Concrete Pumping Aid. Ready To Use Water Soluble Powder .It's A 100% Replacement For Cement Grout Slurries . Very Low Cost Material Compare To Cement Or Primer Slurries .Compatible With All Concrete Material & Not Having Calcium Chloride .Contains No Harmful Substance – Environmentally Safe.



DIRECTION TO USE

Use One Pouch Of (250/200 G) In 40 Ltr Of Water To Prime 100/70 Mtr Of 5 Inch Pump Line .Mix For 10 Minute, Pour Into The Priming Port Or Hopper Just Prior Pumping However The Dosage May Vary According To Site Condition

ADVANTAGE AND USE

- Readily Ater Soluble Dry Powder
- No Need Of Cement Or Any Priming Material
- Easy To Use For Pump Priming
- Reduce The Horsepower Required For Pumping
- Increase Ease And Range Of Pumpability
- Unique Pump Primer And Pumping Aid
- Help To Reduce Cost Of Pumping
- Environmentally Safe

PACKING

CIS PUMP PRIMER 117 AID Supplied In 250/200 Gm Pouch In Bag Contain 100 Pouches

CIS CHEM KRYSTELINE GP 500

CEMENTCIOUS CONCREATE WATERPROOFING

PRODUCT CATEGORY: NEW CONSTRUCTION

PRODUCT DISCRIPTION

CIS KRYSTALINE GP500 is a next generation, crystalline, waterproofing admixture. It has been designed to waterproof and improve the durability of concrete using hydrophilic, hydration enhancing, crystalline technology.

CIS KRYSTALINE GP500 is added to fresh concrete easily at the batch plant or directly into ready mix trucks. It works to continuously prevent moisture from penetrating through the concrete by creating a catalytic reaction within the pores and capillaries to enhance the hydration process of the cement component within the concrete. The enhanced hydration process not only provides waterproofing characteristics to the concrete, it also allows for an increased ability to self-heal micro cracking upon the presence of moisture.

FEATURES & KEY BENEFITS

- Stop water leaks in concrete
- Seals and waterproofs cracks up to 0.5 mm
- Protects reinforcing steel against corrosion
- Total and permanent waterproofing
- Waterproofing increases with time
- Not affected by surface wear or abrasion
- Effective against hydrostatic pressure up to 12 bar
- Waterproofs from any direction (positive or negative side)
- Gives concrete excellent resistance to attack by sulphates and chloride
- Water vapor permeable
- Safe for contact with potable water
- Will increase the durability of the concrete

APPLICATION GUIDELINES

Concrete is a naturally porous material, with microcracks, voids, pores and capillaries that are formed mainly in the early stages of curing. The more interconnection between these holes, the more permeable the concrete is and the more prone to damage caused by the entry of water and corrosive agents. However, CIS KRYSTALINE GP500 technology virtually eliminates porosity of the concrete and many of its inherent weaknesses, which increases durability.

CIS KRYSTALINE GP500 acts by hydrophilic crystallization. Through a catalytic process it creates a chemical

reaction between the unhydrated cement particles and water, creating additional insoluble crystalline hydration which fill the concrete's capillary network. These crystal deposits become an integral part of the hydrated paste. The resulting concrete has a significantly greater ability to autogenously heal cracks and resist the penetration of water under hydrostatic pressure. CIS KRYSTALINE GP500 is a dry powder that is added directly to the concrete during mixing. The dosage rate is 1 kg per m^3 of concrete. Reduce the water component by approximately 5% to achieve equal slumps on most mix designs (subject to mix design and raw material components). Even though the concrete will look less wet than most concrete mixes, it will provide an increased workability resulting in increased productivity. Add CIS KRYSTALINE GP500 directly during mixing. Prior testing is recommended.

CONSIDERATIONS FOR BATCHING

Eliminate all variables such as recycled water or recycled aggregate. When adding multiple admixtures to a concrete batch, do not add other admixtures at the same time as CIS KRYSTALINE . Add CIS KRYSTALINE GP500 first and premix before adding other admixtures to eliminate intermixing and interference of the other admixtures.

Batch plant – Dry batch addition instructions CIS KRYSTALINE GP500 may be added directly to the ready-mix truck at dry batch operations. The following systems may be used:

1 Prepare a separate silo and addition system for CIS KRYSTALINE GP500 and add it directly to the ready-mix vehicle after the cement has been added or add CIS KRYSTALINE GP500directly to the mixer or ready-mix vehicle manually after the cement has been added.
2 Allow 10 minutes at high speed for mixing.
3 If slump is lower than required add a water reducer or plasticizer to increase slump to the required slump.

BATCH PLANT – CENTRAL MIX OPERATION INSTRUCTIONS

1 Prepare a separate silo and addition system for CIS KRYSTALINE GP500 and add it directly to the mixer after the cement has been added or add CIS KRYSTALINE GP500 directly to the mixer manually after the cement has been added.
2 Mix as per mixer specification and standard practices.
3 If slump is lower than required add a water reducer or plasticizer to increase slump to the required slump

DOSAGE

Dosage is 1 kg of CIS KRYSTALINE GP500 per m^3 of concrete.

STORAGE

CIS KRYSTALINE GP500 should be stored at room temperature (min 5°C and max 35°C), kept dry and out of direct sunlight. If these conditions are maintained and the product packaging is unopened, then a shelf life of 2 years can be expected.

PACKAGING

CIS KRYSTALINE GP500 i s supplied in 20 kg pails. Available in 1 kg water soluble bags to be added directly to the concrete mix for easy on-site dosage and handling.

CIS CHEM RCURWB 609

ECO-FRIENDLY, WAX-BASED, CLEAR CURING COMPOUND, SEALER AND DUSTPROOFER

PRODUCT CATEGORY: CURING COMPOUND

PRODUCT DISCRIPTION

CIS RCURWB 609 is an a wax based non-degrading, single component, clear curing compound. It is also suitable for use as a sealer and dustproofer for floors and walls. CIS RCURWB 609 is resistant to UV, abrasion and a range of chemicals. CIS RCURWB 609 is applied by spray at a coverage rate of 5-10m²/litr

USES

Provides a clear curing, sealing, dustproofing compound and acts as a pre-cure finishing aid, which can be used in a wide range of applications:

- High rise construction to eliminate water curing Floors, warehouses, slabs and columns Dust proofing concrete walls and floors
  Clear sealer for concrete Self-curing, primer system to subsequent coverings
  Pre-cure finishing aid; enables ease of finishing concrete flat works and pavement by manual steel or mechanical trowel

SPECIFICATION

Where indicated in the contract documents, the water based curing copound with sealing and dustproofing properties will be CIS RCURWB 609 supplied by CIS .

CHARACTERISTICS / ADVANTAGES

Eco-friendly - water based, free from solvent, oils waxes, chlorinated or saponifiable materials
Excellent evaporation controlling compound, resulting in moisture retention
Excellent moisture retention for freshly placed concrete, resulting in minimising shrinkage cracks
Suitability for foot traffic UV, chemical and abrasion resistant
Versatile - can be applied equally well to freshly placed or existing concrete
Cost effective - can be overcoated with waterbased and solvent based acrylic coatings, epoxy coatings, polyurethane coatings etc.

CIS CHEM RCURWB 609

ECO-FRIENDLY, WAX-BASED, CLEAR CURING COMPOUND, SEALER AND DUSTPROOFER

PRODUCT CATEGORY: CURING COMPOUND

STANDRADS

compliance Complies to ASTM C1315 Type 1, class A.

PROPERTIES

Solids content (ASTM D1644)	: 27%
Moisture retention	: 0.37kg/m² (ASTM C156)
Drying time	: 35 - 40 mins @ 20°C (ASTM C135, M 8.3) 10 - 15 mins @ 35°C
UV Resistance	: Resistant - no yellowing, (ASTM G53)
chalking - lighter than gardener colour 3 Adhesion of tile cement (ASTM C1315/ASTM D4541)	: 1.2 N/mm²

APPLICATION

CIS RCURWB 609 should be applied uniformly by brush, roller or spray, with no overlap of applications. Under standard site conditions, a single coat of CIS RCURWB 609 applied at a uniform rate of 7 to 10 m2 per litre. Extra porous substrates will necessitate application of CIS RCURWB 609 at a rate of 5 - 10 m² per litre. In case of sealing and dustproofing application, 2 coats at the above range must be applied. The second coat should be applied at a coverage of 10 - 15m² per litre. The applied film should not be trafficked until fully dry, and care should be taken to ensure that the film is not broken. Spray equipment Motorised or knapsack spray equipment, which produces a fine spray

COVERAGE

Coverage figures quoted for CIS RCURWB 609 are indicative; and based upon application to fresh or damp concrete at the appropriate time. Care should be taken to ensure that the concrete is indeed ready to accept the curing membrane
. CIS RCURWB 610: 5 to 10 m2 /litre

PACKING

50 litre,100 litre,200 litre

CIS CHEM RCURWB 610

ECO-FRIENDLY, ALUMINIUM BASED CURING COMPOUND, SEALER AND DUSTPROOFER

PRODUCT CATEGORY: CURING COMPOUND

PRODUCT DISCRIPTION

CIS RCURWB 610 is an aluminium based non-degrading, single component, curing compound. It is also suitable for use as a sealer and dustproofer for floors and walls. CIS RCURWB 610 is resistant to UV, abrasion and a range of chemicals. CIS RCURWB 610 is applied by spray at a coverage rate of 5-10m²/litr

USES

Provides a clear curing, sealing, dustproofing compound and acts as a pre-cure finishing aid, which can be used in a wide range of applications:
High rise construction to eliminate water curing
Floors, warehouses, slabs and columns Dustproofing concrete walls and floors v Clear sealer for concrete
Self-curing, primer system to subsequent coverings
Pre-cure finishing aid; enables ease of finishing concrete flat works and pavement by manual steel or mechanical trowel

ADVANTAGES

Eco-friendly - water based, free from solvent, oils waxes, chlorinated or saponifiable materials
Excellent evaporation controlling compound, resulting
Eco-friendly - water based, free from solvent, oils waxes, chlorinated or saponifiable materials
Excellent evaporation controlling compound, resulting in moisture retention
Excellent moisture retention for freshly placed concrete, resulting in minimising shrinkage cracks
Suitability for foot traffic UV, chemical and abrasion resistant
Versatile - can be applied equally well to freshly placed or existing concrete
Cost effective - can be overcoated with waterbased and solvent based acrylic coatings, epoxy coatings, polyurethane coatings etc.

STANDRADS

compliance Complies to ASTM C1315 Type 1, class A.

CIS CHEM RCURWB 610

ECO-FRIENDLY, ALUMINIUM BASED CURING COMPOUND, SEALER AND DUSTPROOFER

PRODUCT CATEGORY: CURING COMPOUND

PROPERTIES

Solids content (ASTM D1644) : 35%
Moisture retention : 0.31kg/m² (ASTM C156)
Drying time : 45 mins @ 20°C (ASTM C135, M 8.3) 10 - 15 mins @ 35°C
UV Resistance : Resistant -
chalking - lighter than gardener colour 3 Adhesion of tile cement (ASTM C1315/ASTM D4541): 1.2 N/mm²

APPLICATION

CIS RCURWB 610 should be applied uniformly by brush, roller or spray, with no overlap of applications. Under standard site conditions, a single coat of CIS RCURWB 610 applied at a uniform rate of 7 to 10 m2 per litre. Extra porous substrates will necessitate application of CIS RCURWB 610 at a rate of 5 - 10 m² per litre. In case of sealing and dustproofing application, 2 coats at the above range must be applied. The second coat should be applied at a coverage of 10 - 15m² per litre. The applied film should not be trafficked until fully dry, and care should be taken to ensure that the film is not broken. Spray equipment Motorised or knapsack spray equipment, which produces a fine spray

COVERAGE

Coverage figures quoted for CIS RCURWB 610 are indicative; and based upon application to fresh or damp concrete at the appropriate time. Care should be taken to ensure that the concrete is indeed ready to accept the curing membrane
. CIS RCURWB 610: 5 to 10 m2 /litre

PACKING

50 litre, 100 litre, 200 litre

CIS 521 WB

ECO-FRIENDLY, RESIN BASED, CURING COMPOUND, SEALER AND DUSTPROOFER

PRODUCT CATEGORY: CURING COMPOUND

PRODUCT DISCRIPTION

CIS 521 WB water-based concrete curing compound is formulated from hydrocarbon resins and may be used on interior, exterior, vertical, and horizontal concrete surfaces. Once applied, CIS 521 WB forms a premium-grade membrane that retains an optimum amount of water in freshly placed concrete for complete hydration of the cement.
NOTE: After approximately four weeks, the membrane begins to chemically break down when exposed to UV rays. The membrane will eventually dissipate from the surface. This process is sped up by exposure to traffic and UV light, as well as weathering conditions. This product is formerly known as CIS 521 WB

USES

CIS 521 WB can be used on both interior and exterior applications. Paint, resilient tile, or resilient flooring may be applied on concrete cured with CIS 521 WB, once the product has dissipated and/or has been properly removed. Because of the wide variety of coatings, paints, adhesives, and toppings available, contact the manufacturer of the flooring system or subsequent coating or topping for application approval over concrete cured with resin-based curing compounds. A small test application is always recommended

FEATURES/BENEFITS

- When properly applied, CIS 521 WB produces a premiumgrade film, which optimizes water retention
- Furnished as a ready-to-use, true water-based compound.
- Produces hard, dense concrete ... minimizes hair checking, thermal cracking, dusting, and other defects
- Offers a compressive strength significantly greater than improperly cured or uncured concrete.
- Increases tensile strength for greater resistance to cracking and surface crazing.
- Improves resistance to abrasion and the corrosive actions of salts and chemicals..
- Minimizes excessive shrinkage.
- Can be applied quickly and easily with conventional commercial spray equipment.
- Formulations also available with red fugitive dye added (Type 1-D).
- VOC-compliant.

CIS 521 WB

ECO-FRIENDLY, RESIN BASED, CURING COMPOUND, SEALER AND DUSTPROOFER

PRODUCT CATEGORY: CURING COMPOUND

COVERAGE

Approximately 200 ft.2/gal. (4.91 m2/L). Coverage is approximate and may vary depending on surface finish/texture, concrete condition, climatic conditions, etc. Always apply to a test area first to determine actual coverage rate before full-scale application

SPECIFICATIONS

- AASHTO M 148, Type 1, Classes A & B (Type 1-D also available)
- ASTM C309, Type 1, Classes A & B (Type 1-D also available)
- Complies with all current federal, state, and local maximum allowable VOC requirements, including National EPA VOC Emission Standard for Architectural Coatings, CARB, LADCO, OTC Phase I and II, and SCAQMD.

CIS POWDER WATERPROOF 521

INTEGRAL POWDER WATERPROOFING COMPOUND FOR PLASTER & CONCRETE

PRODUCT CATEGORY: INTEGRAL WATERPROOFING

PRODUCT DISCRIPTION

- CIS POWDER WATERPROOF is composed of waterproofing additives, dispersed in inert fine filler. It is an integral
- Powder-waterproofing admixture used for waterproofing of concrete and cement plasters, because It makes
- Concrete cohesive, reduces porosity & improve water tightness.
- Standard compliances / Specification
- Meets the requirements of IS : 2645 – 2003 standard

TYPICAL APPLICATION

- Basements,
- Roof slabs and screeds,
- Water retaining structures,
- External plastering,
- Bathrooms
- Balconies.

FEATURES

- Corrosion - Chloride-free hence no chances of corrosion of reinforcement bars.
- Water seepage - As an effective pore filler, helps to fill capillaries and pores to prevent water seepage.
- Consistency - Makes the mix cohesive and denser, hence the concrete & plaster has reduced permeability.
- Economics – Most economical water proofing additive, reduces water absorption.
- Setting & strength - Does not affect the setting time and strength of the cured concrete.
- Compatibility – Compatible with all types & grades of cements

PACKING:

1 KG

METHOD OF APPLICATION

HAND MIXING

- Add CIS Powder Waterproof to the dry mix of cement sand and mix evenly with a spade, until an even mix is

CIS POWDER WATERPROOF 521

INTEGRAL POWDER WATERPROOFING COMPOUND FOR PLASTER & CONCRETE

PRODUCT CATEGORY: INTEGRAL WATERPROOFING

METHOD OF APPLICATION

- Obtained.
- Add the measured quantity of potable water as per decided W/C ratio and mix to a homogeneous & uniform
- consistency concrete / mortars.
- Place the mixed concrete / mortar into shuttering, provided
- Cure the concrete / mortar surface as per regular practices of water curing.

MACHINE MIXING

- Charge the Cement & sand as per the mix design into concrete mixer & mix for one minute. Add 1Kg of CIS Powder Waterproof for every 50X2 kg bag of cement. & mix for one minute.
- Add the measured quantity of potable water as per W/C ratio and mix for 2-3 minutes to a lumps free
- Homogeneous concrete.
- Place the mixed concrete mortar into shuttering provided.
- Cure the concrete / mortar surface as per regular practices of water curing.

PRECAUTIONS & LIMITATIONS

- Do not add CIS Powder Waterproof directly to water.
- Do not add CIS Powder Waterproof in wet concrete/ mortar.

Mix with dry mortar composition

TECHNICAL INFORMATION

PROPERTIES	SPECIFICATION	RESULTS
Appearance		Free Flowing Powder
Colour		Off White
Bulk Density		0.45 G/ML TO 0.60 G/ML
Compressive strength, N/MM2	IS : 2645-83	Matches to control mix
Water permeability	IS : 2645-83	<50% OF CANTROL MIX

DOSAGE

1 Kg CIS Powder Waterproof for 50x2 kg bag of cement

HEALTH & SAFETY

- Use rubber hand gloves & safety goggles, while using CIS Powder Waterproof.
- In case of contact with skin, wash with plenty of water.
- Keep out of reach of children'

CIS SUPERCOAT 204

TWO COMPONENT ACRYLIC CEMENTCIOUS COATING

PRODUCT CATEGORY: WATEPROOFING

PRODUCT DISCRIPTION

CIS SUPERCOAT-204 is a high elastic, waterproofing polymer based material. With special waterproofing properties, easy to use by plastering, applying by using a brush and roller or trowel. Can be painted or overlaid. Use with waterproofing for non-toxic water tanks, can be used with drinking water. (Passed the water quality test on toxic substances (heavy metals) of the Water Quality Control Department) Provincial Waterworks Authority. After mixing with cement part , the liquid material can be applied on the desired surface. After drying, it

looks like a rubber sheet. It has the property to prevent water seeping through, seamless and flexible, not cracking.meets the requirement of ASTM C 190 -1985 standard

CIS SUPERCOAT-204 is Two component Aqueous styrene-acrylate copolymer based waterproofing material liquid (modified acrylic polymer) and high Elongination powder. nontoxic substances, environmentally friendly - free Volatile Organic Compound (VOC), excellent waterproofing property - no leakage up to 10 m. hydrostatic pressure
(mixing ratio 5:8.5 liquid : filler)

PRECAUTIONS & LIMITATIONS

- Do not add water to CIS SUPERCOAT-204 during application
- CIS SUPERCOAT-204 needs 7 days for complete air curing.
- Concrete & masonry surfaces must be cured for 28 days before application

AREA OF APPLICATION

- Concrete foundations, basements wall and lift pits.
- Swimming pools, water tanks and reservoirs.
- Concealed roofs, parking decks, bathroom, toilet, kitchen, balconies and planters.
- Any other concrete, cement or masonry surface subject to damage from moisture.
- Interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and block work
- Protection of concrete structures against the effects of de-icing salts and freeze-thaw attack
- Pore / blowhole filling

CIS SUPERCOAT 204

TWO COMPONENT ACRYLIC CEMENTCIOUS COATING

PRODUCT CATEGORY: WATEPROOFING

- FEATURES & BENEFITS
- Elasticity - Highly elastic film formation which accommodates thermal movements.
- Permeability - Impermeable to water providing excellent waterproofing property
- Water pressure - High film built-up to withstand 10m hydrostatic pressure without any leakages.
- Application advantage - Can be applied on damp surfaces leading to wide range application and instant remedy from moisture.
- Bonding - Excellent adhesion to concrete and masonry substrates hence longer life.
- Drying - Quick drying after application & user friendly, faster application.
- Seamless coating – Forms seamless coating without any joints, prevents water leakage.
- Toxicity – It is Non-toxic and free of VOC.
- Ease of application - Easily applied by brush, roller or spray

METHOD OF APPLICATION

Surface Preparation

- Allow new concrete and masonry substrate to fully cure prior application.
- All surfaces must be free from oil, grease, wax, dirt or any other form of foreign matter which might effect adhesion.
- Spalled Concrete must be sound before applied.
- Substrate should be reach a "Saturated Surface Dry" (SSD) condition (damp, without standing water)
  Mixing
- Use Portland cement mechanical mixer at slow speed; add Portland cement part to liquid part in a clean container
- until a smooth and homogenous slurry mixture is achieved.
- Allow the mixed slurry to stand for 5-10 minutes for releasing air-trapped during the mixing prior to application.
- Mixing material must be use within recommend pot life.
  Applications
- CIS SUPERCOAT-204 slurry can be applied by brush or roller. DO NOT dilute with water.
- Recommend Coverage rate is approximately 1.1 kg./m2 /coat for 1.5 mm. (Minimum 2 coat.).
- Allow the slurry to cure for at least 15-30 min. before applying second coat. Do not leave the first coat to dry longer than 8 hours.
- For tile adhesive application on surface allow surface to cure for 3 days prior.
- If first coat was cure over 8 hours Curing
- For maximum protection, allow 12 to 24 hours curing time after second coat.
- Leave CIS SUPERCOAT-204 at least 7 days to cure before filling or sealing water to test leaks.

COVERAGE

Coverage Approximately 4.5 -6 sq.ft in 2 coats at 1.5 mm DFT coverage may vary depending upon the nature and texture of the substrate

SHELF LIFE & STORAGE

- shelf life is 12 months from the date of manufacturing in unopened condition

CIS CONCRECOAT 204

SINGLE COMPONENT ACRYLIC CEMENTCIOUS COATING

PRODUCT CATEGORY: NAPTHALENE BASED ADMIXTURE

PRODUCT DISCRIPTION

CIS CONCRECOAT-204 is a high elastic, waterproofing polymer based material. With special waterproofing properties, easy to use by plastering, applying by using a brush and roller or trowel. Can be painted or overlaid. Use with waterproofing for non-toxic water tanks, can be used with drinking water. (Passed the water quality test on toxic substances (heavy metals) of the Water Quality Control Department) Provincial Waterworks Authority. After mixing with cement part , the liquid material can be applied on the desired surface. After drying, it

looks like a rubber sheet. It has the property to prevent water seeping through, seamless and flexible, not cracking.meets the requirement of ASTM C 190 -1985 standard

CIS CONCRECOAT-204 is single component Aqueous styrene-acrylate copolymer based waterproofing material liquid (modified acrylic polymer) and nontoxic substances, environmentally friendly - free Volatile Organic Compound (VOC), excellent waterproofing property - no leakage up to 10 m. hydrostatic pressure

PRECAUTIONS & LIMITATIONS

- Do not add water to CIS CONCRECOAT-204 during application
- CIS CONCRECOAT-204 needs 7 days for complete air curing.
- Concrete & masonry surfaces must be cured for 28 days before application

AREA OF APPLICATION

- Concrete foundations, basements wall and lift pits.
- Swimming pools, water tanks and reservoirs.
- Concealed roofs, parking decks, bathroom, toilet, kitchen, balconies and planters.
- Any other concrete, cement or masonry surface subject to damage from moisture.
- Interior and exterior waterproofing and damp-proofing of concrete, cementitious rendering, brickwork and blockwork
- Protection of concrete structures against the effects of de-icing salts and freeze-thaw attack
- Pore / blowhole filling
- Sealing fine static cracks in concrete structures not subject to movement

CIS CONCRECOAT 204

SINGLE COMPONENT ACRYLIC CEMENTCIOUS COATING

PRODUCT CATEGORY: NAPTHALENE BASED ADMIXTURE

FEATURES & BENEFITS

Elasticity - Highly elastic film formation which accommodates thermal movements.
Permeability - Impermeable to water providing excellent waterproofing property.
Water pressure - High film built-up to withstand 10m hydrostatic pressure without any leakages.
Application advantage - Can be applied on damp surfaces leading to wide range application and instant remedy from moisture.
Bonding - Excellent adhesion to concrete and masonry substrates hence longer life.
Drying - Quick drying after application & user friendly, faster application.
Seamless coating – Forms seamless coating without any joints, prevents water leakage.
Toxicity – It is Non-toxic and free of VOC.
Ease of application - Easily applied by brush, roller or spray.

METHOD OF APPLICATION

Surface Preparation
Allow new concrete and masonry substrate to fully cure prior application.
All surfaces must be free from oil, grease, wax, dirt or any other form of foreign matter which might effect adhesion. Spalled Concrete must be sound before applied. Substrate should be reach a "Saturated Surface Dry" (SSD) condition (damp, without standing water)

Mixing

- Use Portland cement mechanical mixer at slow speed; add Portland cement part to liquid part in a clean container until a smooth and homogenous slurry mixture is achieved.
- Allow the mixed slurry to stand for 5-10 minutes for releasing air-trapped during the mixing prior to application.
- Mixing material must be use within recommend pot life

Applications

- CIS CONCRECOAT-204 slurry can be applied by brush or roller. DO NOT dilute with water.
- Recommend Coverage rate is approximately 1.1 kg./m2 /coat for 1.5 mm. (Minimum 2 coat.).
- Allow the slurry to cure for at least 15-30 min. before applying second coat. Do not leave the first coat to dry longer than 8 hours.
- For tile adhesive application on surface allow surface to cure for 3 days prior.
- If first coat was cure over 8 hours

Curing

- For maximum protection, allow 12 to 24 hours curing time after second coat.
- Leave CIS CONCRECOAT-204 at least 7 days to cure before filling or sealing water to test leaks.

COVERAGE

Coverage Approximately 4.5 -6 sq.ft in 2 coats at 1.5 mm DFT coverage may vary depending upon the nature and texture of the substrate

SHELF LIFE & STORAGE

shelf life is 12 months from the date of manufacturing in unopened condition

CIS C129 HYBRIDCRETE

ACRYLIC POLYMER MODIFIER FOR CEMENTITIOUS COMPOSITIES

PRODUCT CATEGORY: CEMENT MODIFIER AND COATING

PRODUCT DISCRIPTION

C129 HYBRID CREATE is a white liquid Acrylic Polymer admixture for waterproof coating, bonding agent, repair-mass-in-fill and non-shrink polymer cement grout system.

AREAS OF APPLICATION

- C129 HYBRID CREATE is recommended for use in the following areas of application
- Waterproof and damp-proof coating in the form of cement slurry/cement mortar
- As a bonding agent on cold/constructiopn joints
- Concrete repair as a patching mortar } Protective layer for cementitious surface
- Injection into concrete/rock structures in the form of cement slurry
- As a mortar or slurry coating for better resistant to chemical attack

FEATURES & BENEFITS

- Good bonding properties
- Good as a waterproof coating
- Static cracks can be filled with mortar made with C129 HYBRID CREATE
- A good modifier to make repair mortar/concrete
- Durable to UV exposure
- Eco-friendly

SURFACE PREPARATION

Surface should be sound, clean of oil, grease, dust and other surface contaminants.
Prepared surface should be thoroughly dampened with water preferably over night for application, as a repair plaster. For use as a bonding agent / waterproof coating, concrete or masonry surface must be in a saturated surface dry condition.

a) Waterproof cement slurry

Mix 1 Litre of "C129 HYBRID CREATE" liquid with 2 Kg of fresh 43 or 53 grade OPC (do not use lumpy or air set OPC or PPC) thoroughly to make smooth brushable consistency. Such mixed material (say 3 Kg.) will provide the coverage between 1.5 m2 and 2.0 m2 depending upon surface texture/porosity on a prepared surface. The thickness varies from 0.9 to 1.1 mm

CIS C129 HYBRIDCRETE

ACRYLIC POLYMER MODIFIER FOR CEMENTITIOUS COMPOSITIES

PRODUCT CATEGORY: CEMENT MODIFIER AND COATING

PRODUCT INFORMATION

b) Bonding coat between two courses of concrete/mortar

OPC = 1.75 Kg
Zone III Sand = 1.75 Kg.
C129 HYBRID CREATE = 1 ltr.
Mix to a smooth consistency and then apply by brush. Within 5 minutes of application start placing the concrete over it and compact the mass as usual within 45 minutes. Critical Cold joints/construction joints are not only be well bonded but also will not give rise to any future water leakage. 4.5 kg of mixed material will cover around 2.20m2 to 2.60m2 in single coat, which is recommended. The pouring of new concrete/ mortar should be completed within 45 minutes of Bond Coat application

c) Brush topping

Fresh O.P.C. = 1 Kg.
60/80 mesh quartz sand = 1 Kg.
C129 HYBRID CREATE = 0.60 Ltr.
Mix to a smooth consistency. Apply on a prepared surface by brush. Such 2.6 kg mixed material will provide coverage around 1.3 m2 to 1.7 m2 in two coats depending upon surface texture porosity. Thickness varies from 0.8 to 1 mm.

d) Repair mortar

O.P.C. = 6 Kg.
Zone II sand = 15 Kg.
C129 HYBRID CREATE liquid polymer = 2 ltr.
Such 23 kg mixed material will provide coverage around 1.3 m2 to 1.7 m2 in two coats depending upon surface texture porosity. Thickness varies from 0.8 to 1 mm.

e) Heavy-duty floor topping

O.P.C. = 3 Kg.
Zone II sand = 5 Kg.
C129 HYBRID CREATE = 1 ltr.
Such 9 kg mixed material will cover about 0.80 to 1.0 m2 surface of 4 to 5 mm thickness.

F) Injection grouting

O.P.C. = 3 Kg.
C129 HYBRID CREATE = 1 ltr CIS Grout Mix = 30gm.

G) Adhesive-mortar for tiles, glass, brick etc.

O.P.C. = 3 Kg.
Zone III sand = 6 Kg.
C129 HYBRID CREATE = 1.40 ltr.
Such 10.40-kg mixed material will cover around 1.5 m2 to 2.00 m2. Thickness is about 3 mm.

PRECAUTIONS & LIMITATIONS

Prepared surface should be thoroughly dampened with water preferably over night before any application

CIS C129 HYBRIDCRETE

ACRYLIC POLYMER MODIFIER FOR CEMENTITIOUS COMPOSITIES

PRODUCT CATEGORY: CEMENT MODIFIER AND COATING

PACKING

5 ltr, 10 ltr, 20 & 200 ltrs. drums.

SHELF LIFE

12 Months from the date of manufactures in unopened containers stored at cool & dry place.

STORAGE

Store in Cool place under the shade.

CIS C129 ULTRA CRETE

HIGH BOND POLYMER AND CEMENCIOUS COATING

PRODUCT CATEGORY: CEMENT MODIFIER AND COATING

PRODUCT DISCRIPTION

CIS ULTRA CREATE is a white liquid Acrylic Polymer admixture for waterproof coating, bonding agent, repair-mass-in-fill and nonshrink polymer cement grout system.

AREAS OF APPLICATION

CIS ULTRA CREATE is recommended for use in the following areas of application
Waterproof and damp-proof coating in the form of cement slurry/cement mortar
As a bonding agent on cold/constructiopn joints Concrete repair as a patching mortar } Protective layer for cementitious surface
Injection into concrete/rock structures in the form of cement slurry
As a mortar or slurry coating for better resistant to chemical attack

FEATURES & BENEFITS

- Good bonding properties
- Good as a waterproof coating
- Static cracks can be filled with mortar made with CIS ULTRA CREATE
- A good modifier to make repair mortar/concrete
- Durable to UV exposure
- Eco-friendly

SURFACE PREPARATION

Surface should be sound, clean of oil, grease, dust and other surface contaminants.
Prepared surface should be thoroughly dampened with water preferably over night for application, as a repair plaster. For use as a bonding agent / waterproof coating, concrete or masonry surface must be in a saturated surface dry condition.

USES

a) Waterproof cement slurry
b) Bonding coat between two courses of concrete/mortar
c) Brush topping

CIS C129 ULTRA CRETE

HIGH BOND POLYMER AND CEMENCIOUS COATING

PRODUCT CATEGORY: CEMENT MODIFIER AND COATING

d) Repair mortar
e) Heavy-duty floor topping
f) Exterior Plaster
g) Injection grouting
h) Adhesive-mortar for tiles, glass, brick etc.
I) Passivating Coat

TECHNICAL INFORMATION

Colour	:	Bluish white/milky liquid polymer.
Density	:	1.05 + 0.02 kg/litre.
Bond Strength	:	2 times more than normal cement slurry coating.
Waterproofing	:	10 times higher than the normal cement slurry and mortar under same workability and curing Minimum film forming
temperature	:	5°C

PRECAUTIONS & LIMITATIONS

Prepared surface should be thoroughly dampened with water preferably over night before any application.

PACKING

5 ltr, 10 ltr, 20 & 200 ltrs. drums.

SHELF LIFE

One year from the date of manufactures in unopened containers stored at cool & dry place

STORAGE

Store in Cool place under the shade.

HEALTH & SAFETY PRECAUTIONS

Use of rubber gloves, for hand pressing of CIS ULTRA CREAT Emortar recommended.

CIS DAMP SHILD

DAMP - PROOF COATING FOR INTERNAL WALLS AND RCC WATER TANK

PRODUCT CATEGORY: DAMPROOF WALLS COAT

PRODUCT DISCRIPTION

CIS DAMP SHILD is a two-component coating composed of epoxy resin, curing agent, inert pigments & properly selected fine fillers, additives in water as a medium. It has an advantage of dilution with water for application over cementitious surfaces. It is used as an internal coating for the damproofing treatments of water tanks with anti-microbial anti fungal properties. It has excellent water resistance, adhesion to concrete surface, has good hardness and sets faster.

FEATURES

- Application advantage - It can be applied over damp concrete & plaster surfaces and provides excellent water resistant coating with tough & hard film.
- Microbial resistant - Possesses anti-fungal property and is resistant to micro-organisms.
- Adhesion - Provides excellent adhesion to all cementitious substrates.
- Chemical resistant - Excellent resistance to water, salt water, mild acids, alkalis & soap water.
- Toxicity – It is Non-toxic.
- Eco-friendly - Non-hazardous and non-flammable.
- Economical - Water dilutable with high coverage hence economical.
- Health and sefty - Safe for drinking / Potable water contact.

TYPICAL APPLICATION

- Damproofing treatment for RCC water tanks.
- Internal damp wall treatment.
- As putty with OPC- White cement to fill the fine cracks of internal walls. In sterile areas of pharma, food industries &hatcheries etc.

METHOD OF APPLICATION

SURFACE PREPARATION

- Clean the surfaces thoroughly, it should be free from oil, grease, dust, dirt, fungus and moss. Thorough wire

brushing followed by sanding with emery paper is recommended.
Remove the existing paint, neroo or instant lime, etc. while treating internal damp walls

MIXING

Stir the Base and Hardener thoroughly in their individual packs to achieve the uniform consistency. Pour the Base part in appropriate container followed by the Hardener part and mix them thoroughly to a homogeneous smooth paste. Dilute the mixed compound with water (In ratio of 1 part Base: 1 part Hardener: 1.2 part water) by slow addition and mix it thoroughly to get a brushable consistency.

APPLICATION

DAMPROOFING OF RCC WATER TANKS
Fill the cracks & grooves with CIS DAMP SHILD and cement modified putty & allow it to dry for at least 24 hours.
Apply a coat of CIS DAMP SHILD . Let it dry for 24 hrs as there is no ventilation inside the tank for proper drying..
Apply second coat of CIS DAMP SHILD . Allow it to air cure completely for 7 days.
The coating of CIS DAMP SHILD then must be cleaned thoroughly with plenty of water 6-7 times prior to storage of the water to avoid foam formation.

PUTTY PREPARATION

In case of persistent dampness problems use a coat of putty prepared with Damp PROOF as directed below. Stir the contents of both base and hardener individually to achieve uniform consistency for each. Mix base and hardener together and mix thoroughly to achieve homogenous mixture. Mix 1 part of prepared Damp proof with one part of cement and stir well to achieve a proper consistency of putty Damp-proofing of Internal Walls:

SURFACE PREPARATION
Clean the existing substrate as mentioned earlier in the surface preparation section.

APPLICATION
Apply two brush coats of mixed CIS DAMP SHILD at an interval of 6 to 8 hours. Allow it to dry for minimum 24 hours before proceeding for painting. Incase of persistent dampness problems, Apply one coat of CIS DAMP SHILD followed by a coat o f CIS DAMP SHILD Putty prepared as stated above and finally second coat of CIS DAMP SHILD .

CIS DAMP SHILD

DAMP - PROOF COATING FOR INTERNAL WALLS AND RCC WATER TANK

PRODUCT CATEGORY: DAMPROOF WALLS COAT

TECHNICAL INFORMATION

PROPERTIES	SPECIFICATION	RESULTS
Nature		Two component
Mixing ratio, By weight (Base : Hardener : Water)		1:1:1.2
Consistency	Free flowing smooth paste	Smooth paste
Pot life at 30OC, Minutes	50-80 minutes	60 minutes
Surface drying time	60 to 120 minutes	90 minutes

THEORETICAL COVERAGE

CIS DAMP SHILD as a coating: 6 to 8 m2 per kg per coat at DFT 75 microns + OPC Cement putty: 0.6 to 0.8 m2 per kg per coat. * Coverage depends upon the nature & texture of the surface.

SHELF LIFE

Shelf life is 12 months from the date of manufacturing if stored in original and unopened packaging in a cool dry place away from direct sunlight.

CIS SUPERBINDER

TWO COMPONENT EPOXY BONDING AGENT

PRODUCT CATEGORY: SLAB JOINT EPOXY

PRODUCT DISCRIPTION

CIS SUPER BINDER is a two part solvent free bonding agent composed of liquid epoxy resin and hardener. It is used for bonding of structural concrete new to old concrete and bonding agent for bricks and steel components because it gives excellent bonding properties to freshly mixed concrete/mortars, glazed bricks, tiles, etc.

AREAS OF APPLICATION

- CIS super binder for bonding of old to new concrete / mortar.
- To extend or repair structural concrete.
- CIS super binder of glazed brick, tiles, steel & structural members.

FEATURES & BENEFITS

- Ease of application - Easily applicable by brush as a bonding agent for old to new concrete / mortar.
- Adhesion - Excellent adhesion to almost all building materials.
- Strength - Bond strength exceeds the tensile strength of concrete hence no failure of concrete due to high degree of movements.
- Open time - Comfortable open time to complete the work easily.
- Shrinkage - Very low shrinkage as compaired to polymer modified cementitious bonding agents- Water resistance - Excellent water resistance and sealing property prevents leakage.
- Toxicity - Non toxic.
- Moisture tolerant - It is moisture tolerant hence provides strong bond of new concrete to fresh concrete.
- Durability - Very high durable bond.
- Chemical Resistance - Resistant to chemical attack.

METHOD OF APPLICATION

SURFACE PREPARATION

- The surface must be thoroughly cleaned and prepared. Remove all loose particles, dirt, dust, laitance, and mould release agents, curing compounds, oils, grease, floor hardeners and any waterproofing materials for best results.

CIS SUPERBINDER

TWO COMPONENT EPOXY BONDING AGENT

PRODUCT CATEGORY: SLAB JOINT EPOXY

- Remove laitance, dirt and dust by mechanical scarification such as wire brushing, scrapping, scabling or grit blasting.
- Clean the dust by pressurized air or by washing with water. Oil and grease should be removed by degreasing with solvents like turpentine or thinners. Visible signs of mould growth should be removed & treated with a fungicidal solutions New concrete must be cured completely

MIXING

- Stir the material of both base & hardener containers to a uniform colour & consistency.
- Transfer the entire quantity of base component into a clean & dry vessel, then poured entire quantity of hardener into the base. The two parts must be mixed thoroughly with a low speed mixer (150 to 200 rpm for about 3 to 4 minutes) to get uniform colour & consistency of the mixed material

APPLICATION

- Mixed material should be brushed applied on the prepared surface.
- Overlay of concrete / mortar has to be placed on CIS super binder when it is tacky.
- In case CIS super binder has dried, apply a 2nd coat before placing the concrete / mortar.

PRECAUTIONS & LIMITATIONS

- CIS super binder should be applied on old concrete surface.
- Before CIS super binder get tack free, apply new concrete or mortar.
- If applied coating gets fully dry then apply 2nd coat over it.

MIXING RATIO

100:90 (base:hardener)

PACKING

1.8 kg

SHELF LIFE & STORAGE

- Shelf life is 12 months from date of manufacturing in unopened containers.
- Store at cool & dry place, away from sun heat .

COVERAGE

- 2 – 3 sq meter / kg depending on the substrate

CIS TILE ADDITIVE

ACRYLIC ADDITIVE FOR TILE JOINTS

PRODUCT CATEGORY : GROUT

PRODUCT DISCRIPTION

CIS TILE ADDITIVE is a white, polymer emulsion to be added in CIS cementitious tile grout to enhance the performance properties and durability of the tile grout.
Addition of CIS TILE ADDITIVE with CIS CEMENTITIOUS grout helps to impart more flexibility, strength, water & stain resistance, abrasion resistance and to fill wider joints between tile and stone

STANDARD COMPLIANCE/ SPECIFICATION

CIS TILE Additive complies to CG2W requirements as per "BS EN 13888:2009 - Requirements, evaluation of conformity, classification and designation gouts for tiles and ISO 13007-Part 3 : Terms, definitions and specifications for grout

FEATURES AND ADVANTAGES

- Easy to use & clean - Just mix with CIS TILE ADDITIVE on site, ready to use.
- Polymer emulsion - Impart flexibility, water & stain resistant, abrasion resistant.
- Suitable for varied tile and stones - Ceramic, vitrified, marbles, granites etc.
- Crack free and less of shrinkage reduces the chances of water seepage.
  Durable - Enhances compressive & flexural strength and shock resistance

TECHNICAL INFORMATION

APPLICATION PROPERTIES
(CIS TILE ADDITIVE+ RTM Cement Tile Grout)
Colour White Liquid Tentative Mixing Ratio (CIS CEMENTITOUS GROUT) : Additive 200 ml or 400 ml for 1 kg CIS CEMENTITOUS GROUT (2.5 - 3 : 1 by weight)
Mixed Density 1.75 ± 0.05 kg/ litre
Pot life @ 30°C Approx. 60 minutes
Joint Width 1 – 6 mm Sag Resistant Non-sag VOC Content (as per EPA 24) < 14.41 g/ litre Application Temperature from +10° C to +35° C Light Foot Traffic 24 hours Regular Traffic 72 hours Final Curing Time 28 days

CIS TILE ADDITIVE

ACRYLIC ADDITIVE FOR TILE JOINTS

PRODUCT CATEGORY : GROUT

MIXING

- Shake the bottle prior to mixing.
- Take CIS Tile additive into a clean mixing pail. Add cementitious grout and mix thoroughly by hand or with a slow speed mixer (<300 RPM).
- Avoid entraining air by mixing at very high speed or by over-mixing
- Allow the mix to slake for 2-5 minutes and remix.
- Use the paste within 60 minutes from mixing.

SUBSTRATE PREPARATION

Ensure 24 hours time interval for grouting after tile fixing.
The joints must be dry, clean, free of dust & adhesive.
Emptied at least 2/3 of the tile thickness depth.
Before grouting, make sure that the installation the adhesive has set and released most of its moisture. The joints should not be wet during work.
the float at a 90° angle and pull it at a 45° angle diagonally across the joints and tile to avoid pulling out the material.
Work in small areas to have better control on removing the excess grout from joints and surface by moving the squeeze diagonally to the grout lines.
Ensure that joint is filled completely, and grout is not just sitting on top.

CLEANING & FINISHING

Clean off the surplus grout from tile joints and tiles within 30-45 minutes/ before the product dries.
Initially use a rough textured sponge dampened with water to remove the grout residue.
Use the damp sponge in a circular motion and keep it relative to the tile surface to achieve the flush joint & taking care not to drag grout from the joints.
Clean off any light residue of tile grout left on the tile surface using CIS stain O tile cleaner without disturbing the joint finish.

PRECAUTIONS & NOTE

Do not apply on wet/damp tile joints. Always apply on completely dry tile joints.
Do not over-mix the material. Over-mixing can reduce the pot life.
Do not allow grout to harden on the face of the tile. Clean promptly.
While cleaning change frequently the water.
Change cleaning cloth/sponge when they are impregnated with grout.
Do not allow water to flow/run into un-grouted joints while application.

CIS TILE ADDITIVE

ACRYLIC ADDITIVE FOR TILE JOINTS

PRODUCT CATEGORY : GROUT

Protect from direct rainfall/ foot traffic for at least 24 hours
In case of grouting natural stones, it is necessary to execute a preliminary test, in order to verify the absorption of color by the stone slabs. To avoid this problem, mask the tiles before grouting.
A sealer or grout release may be required

SHELF LIFE

12 Months From MFD

PACKING

1 Litre

CIS TILE CARE 316

WATER RASSISTANCE TILE GROUT FILLER

PRODUCT CATEGORY : GROUT

PRODUCT DISCRIPTION

CIS TILE GROUT 316 is a fine powder consisting of portland cement, specially selected polymer, properly selected & graded fine fillers, additives and inorganic chemicals. It is used for grouting of tiles, stones, marble joints & edges because it has water repellency properties, excellent adhesion (high bonding strength), soft consistency, workability and seals joint permanently. It is non-shrinking, non-toxic and odourless grout used for sealing of swimming pool & water tank joints as well.

STANDARD COMPLIANCE / SPECIFICATION

Meets the requirements of ISO 13007 ; IS 15477; BS EN 13888:2002 standards

AREAS OF APPLICATION

- CIS TILE GROUT 316 is used for grouting of ceramic tiles, marbles, natural stones and edges.
- Specially formulated for wet or submerged grouting applications such as swimming pool, bathrooms, toilets, fountains and kitchen areas.
- It can be used for external and internal areas.
- It is used in residential and commercial areas.
- Application upto joint width of 5mm.
- It is excellent for highly glazed tiles to give a smooth and watertight joints which when set will be both water and mould resistant.

FEATURES & BENEFITS

Aesthetics – Available in two shades.
Easy to use – Easily to mix with water and forms soft consistency paste which is easy to fill the joints.
Shrinkage & cracking - Avoids cracks formation in the joints and also there is negligible shrinkage.
Service temperature - Specially formulated for temperature range of 5 – 120°C.
Water resistant – Excellent water-resistance making it beneficial for application in areas immersed under water.
Durability & UV resistant - Excellent UV resistance & durability enables the product use for exterior application.
High Strength & abrasion resistant – High strength & abrasion resistance properties makes it suitable for

CIS TILE CARE 316

WATER RASSISTANCE TILE GROUT FILLER

PRODUCT CATEGORY : GROUT

grouting of toilets & BATHROOMS.

METHOD OF APPLICATION

1 SURFACE PREPARATION

Surface must be cleaned and should be free from dirt, cured tile adhesive. Remove dust with wire brush & by air blower For exterior grouting application, wet the tiles prior to applying CIS TILE GROUT 316

2 MIXING

Add the grout powder to the mixing water (w:p ratio – 1 : 2.5 by volume) and mix with slow speed drill (250-300 rpm) to a soft & smooth consistency paste

If the grout mortar has become too stiff to work, it should be discarded and a new batch should be prepared.

3 APPLICATION

Apply to the tile joints with squeegee, spatula or putty blade. After application flush the surface of tile using a hard rubber float, working diagonally across the grout joints to fill and compact the joints. All excess grout should be removed with the same rubber float without any delay.

Lesser the quantity of grout left on the face of the tiles while application, the final cleaning will be easier.

However, it is important to allow the grout to set in the joint and to let it acquire its initial set before any further cleaning. After the initial set of the grout, clean the tile surface with a pad of cheesecloth or towel dampened with minimum quantity of clean and cool water. Rub in a circular motion to further compact the grout.

The remaining surface grout on the tile can also be cleaned at this time. Scrubbing pad fastened to a float works very well to remove grout from the porous tiles

Rebuff the tile surface and grout within 1-2 hours to remove all weep water and grout residue from the surface, which helps to reduce the efflorescence and to control colour variation.

4 CLEANING

Polish the tiles when the job is complete with a clean dry cloth. Scrubbing the floor with hot water and soap water is the best.

Due to polymer content, it is advisable to clean the surface immediately after the grouting.

Precautions & limitations

Do not mix excess water.

CIS TILE GROUT 316 cannot be used where high acid resistance is required because of its cement base.

The potential for efflorescence is inherent in all cement-based products and it is not to be considered as a manufacturing defect.

PACKAGING

1kg

SHELF LIFE & STORAGE

Shelf life is 12 months from the date of manufacturing in unopened condition. Store in a cool & dry place

CIS TILE CARE 316

WATER RASSISTANCE TILE GROUT FILLER

PRODUCT CATEGORY : GROUT

HEALTH & SAFETY PRECAUTIONS

Protective clothing, such as gloves and goggles, should be worn.
Treat any contact to the skin or eyes with fresh water immediately.
Do not induce vomiting & seek medical
Assistance immediately.
Reseal pack after use and ensure product is stored as instructed

CIS TILE JOINT 45

TWO COMPONENT EPOXY HIGH STRENGTH TILE ADHESIVE

PRODUCT CATEGORY: EPOXY TILE ADHESIVE

PRODUCT DISCRIPTION

CIS TILE JOINT 45 is a two-component, fast setting high strength construction epoxy adhesive used for, spot bonding large format tile and stone on vertical surfaces & for either interior or approved exterior applications.

It bonds virtually anything to anything from tiny electronic parts to large structural components. Being faster setting (15-20 mins at 30°C) its handling time is achieved much faster which is apporx.2hrs & hence is ideal for those jobs which have to be finished in 2-3 Hrs.

This multipurpose two component system comprises of Epoxy resin and hardener which are to be mixed thoroughly in the recommended ratio to achieve optimum results. This system does not contain volatile matter, hence there is negligible shrinkage on curing.

CIS TILE JOINT 45 which is internally flexiblized, provides strong joints with excellent low creep properties hence,make it ideal for structural bonding applications.

APPLICATION AREA OF CIS TILE JOINT 45

- Spot bonding marble
- Granite and large format ceramic tile on concrete and overheads
- Interior or exterior applications.
- Adhesive for bonding masonry
- Precast concrete and stone panels.
- Ideal for fireplace surrounds,
- Elevators and stair risers
- Adhesive for bedding and fastening marble
- Granite and other stone slabs on walls and wainscoting. Adhesive for fabricating granite, marble and other stone

PRODUCT FEATURE

- Permanent bond
- VOC of Resin & Hardener – 0.1 g/L max
- Non-sag consistency · Shock and Vibration resistant

CIS TILE JOINT 45

TWO COMPONENT EPOXY HIGH STRENGTH TILE ADHESIVE

PRODUCT CATEGORY: EPOXY TILE ADHESIVE

- Quickly and easily applicable.
- Non-staining

APPLICATION METHOD

- All substrates must be clean and dry when application of CIS TILE JOINT 45 Adhesive is made. Finished marbles/ granite / decorative stones equipped with any type of resin, mesh, epoxy or fiberglass backing must be ground in those areas to receive CIS TILE JOINT 45.
- Clean and grind back of stone at areas to receive the CIS TILE JOINT 45 spots using a mechanical wheel grinder with a diamond wheel/blade. Remove dust with a stiff brush, wipe entire surface. Using a damp sponge (not wet), wipe the tile or stone to remove any particles or remaining dust to ensure a clean direct bond and that all ground material is removed. Wipe dry with a clean cloth, then apply CIS TILE JOINT 45.
- Mix Part A(Resin) and Part B(Hardener) (1 : 0.5 by weight). Mix until uniform in color; no swirls. Small quantities can be mixed with a putty knife or margin trowel. Larger quantities can be mixed with an electric drill mixer (low speed).
- Apply dabs evenly distributed on back of the stone or tile; 5 dabs minimum, 1 in each corner and 1 in center. Cover at least 10% of the area of each piece. Finished dab thickness must be a minimum of 1/8" (3mm).
- After installation of CIS TILE JOINT 45 onto the marbles/ granite / decorative stones, install onto substrate and adjust for plumb and level.

ADVANTAGES OF CIS TILE JOINT 45

- CIS TILE JOINT 45 Adhesive offers major advantages over mechanical anchoring, concrete and wire, and the thin -set method of installation.
- The first advantage is speed of installation, which increases productivity and lowers labor costs. · CIS TILE JOINT 45 Adhesive is much easier to work with when compared to traditional methods – drilling, cutting or setting of clamps into a stone is not required.
- CIS TILE JOINT 45 Adhesive allows for quick and easy plumb adjustment while the stone is in place to compensate for uneven walls and thickness variations in the stone.
- CIS TILE JOINT 45 Adhesive is permanent – it will not fail or deteriorate over time, thus providing a dependable and beautiful installation for life

PACKING

1.5 kg , 6 kg

SHELF LIFE

12 months from date of manufacturing in factory sealed container.

CIS XP TILE ADHESIVE

CEMENT BASED TILE ADHESIVE

PRODUCT CATEGORY: TILE ADHESIVE

PRODUCT DISCRIPTION

CIS XP TILE ADHESIVE is a polymer modified, cementitious adhesive, that can be used in slurry form on semi-wet screed, for wet-on-wet fixing of tiles, as well as an adhesive paste for fixing tiles on floor and wall.

USES & APPLICATIONS

- For Internal tiling application on walls
- For Internal tiling application on floors
- Tile repairs & Rehabilitation works

FEATURES & BENEFITS

APPLICATION METHOD

1. Surface Preparation Surface temperature should be cool before application, ideally below 35 degrees Surface should be structurally sound and free from dirt, oil, grease, lose peeling paint, concrete sealer or curing compound All slabs must be plumb and true with in: Walls 3mm in 2.5m, and Floors- 1.5mm in 1.0mRough or uneven concrete surfaces should be made smooth with Screed/Plaster material. Use a wood float for better finish Dry, dusty concrete slabs or masonry should be dampened and excess water should be swept off
Installation may be made on a damp surface. New concrete slabs shall be damp cured and should be 28 days old before application

2. MIXING AND BLENDING

Take 5 - 6 Litres of potable water into a clean container. Gradually mix 20 Kg CIS XP TILE ADHESIVE with slow speed mixer to get a uniform lump-free paste in workable consistency. Allow paste to settle for 5-10 minutes. Adjust consistency, if necessary.
Mixed paste should be used within 90-120 minutes. Under coats of coarser coat should be allowed to dry & shrink before subsequent coats are applied to avoid cracking as following up with finishing coat to soon in common of cracking hence avoided
The wall should be soaked but only damped evenly Plastering on very wet and greasy surface should be avoid.

3. MIXING APPLICATION

Apply adhesive uniformly on a substrate to a desired thickness with flat side of notch trowel, Comb with a notch trowel using notched side Use proper size of notched trowel to ensure full bedding of the tile Spread as much

adhesive paste as it can be tiled within 10 minutes accommodate thermal expansion and contraction. As required one can use spacer to provide grout joints between tilessstones. Remove the spacers when the adhesive is firmly set. If the Tile adhesive is dried and skinned, then adhesive should be removed and replaced with a fresh adhesive.

PACKING

5 kg , 25 kg

SHELF LIFE

12 months in cool and dry place without opened or seal properly

CIS HI- TECH PLASTER

CEMENT BASED DRY MIX WALL PLASTER

PRODUCT CATEGORY: WALL PLASTER

PRODUCT DISCRIPTION

CIS HI-TECH PLASTER are manufactured by spray drying macromolecular copolymer dispersions under carefully defined conditions. They are mainly used to improve cohesion, adhesion and flexibility in constructions especially in drymix mortar.

APPLICATION

- Cement-based plasters
- External insulation and finish systems (EIFS)
- Self-leveling compounds
- Crack fillers
- Masonry mortars
- Repair mortars

PRODUCT FEATURE

- Cis hi tech is ready mix plaster offers high quality and durable plastered surface which enhance the durablity of structure on which it is applied
- It is easier to use just by adding required quantity of water at site
- All the ingridents are properly and uniformly blended in CIS HI-TECH PLASTER compared to the traditinoal site mix plaster . CIS HI-TECH PLASTER is free from impurities like silt, clay, chloride, etc. it provides a well compacted homogenous mix of plaster due to proper gradation and propotioing of river sand in the automated process.
- Usage of CIS HI-TECH plaster makes material reconceliation easer for construction project as against the usage of odinary site mix plaster
- Cis hi-tech plaster reduces wastage, shrinkage, sagging, leakage and cracks formation to very great extend beaucause of performance enhancing properity additive, classified and modified fine powders
- CIS HI-TECH PLASTER save time and labour cost in all construction projects

PREACAUTION

Under coats of coarser coat should be allowed to dry & shrink before subsequent coats are applied to avoid cracking as following up with finishng coat to soon in common of cracking hence avoided The wall should be soaked but only damped evenly Plastering on very wet and greasy surface should be avoid

CIS HI- TECH PLASTER

CEMENT BASED DRY MIX WALL PLASTER

PRODUCT CATEGORY: WALL PLASTER

PACKING

1kg, 5kg, 25 kg

SHELF LIFE AND STORAGE

12 months in cool and dry place without opened or seal properly

CIS EPOXY 18

COLOUR BASED TILE GROUT

PRODUCT CATEGORY: TILE JOINT FILLER

PRODUCT DISCRIPTION

CIS EPOXY 18 is a chemical resistant, & impervious epoxy based tile joint filler which has high degree of resistance to abrasion It is designed for grouting gap between glazed, ceramic, porcelain, vitrified & fully vitrified tiles, natural stones & Glass mosaics. CIS epoxy 18 can also be used as a high-performance epoxy adhesive for fixing tiles & stone

AREA OF USE

All types of ceramic tile, glazed tiles, porcelain tiles, vitrified & fully vitrified tiles, natural stones* , large format tiles, glass mosaic tiles, composites & engineered stone

AREA OF APPLICATION

Floor & walls of internal & external area, dry as well as wet area, water submerged area, food, pharma & hygiene required areas, area containing aggressive chemicals, heavy traffic/movement areas, domestic applications, commercial applications, wider tile joints.

FEATURES AND ADVANTAGES

- Stainless - Will not be stained by most foods, beverages and cleaning agents
- Easy Maintenance - Smooth texture, easier to clean.
- Provides excellent chemical resistant to many acids, alkalis and corrosives.
- Provides hygienic, hard wearing and abrasion resistant surface.
- Waterproof property
- Durable - Will not peel, crack or powdering
- Excellent mechanical property & highly resistant to heavy traffic.
- Easy to Use - No noxious odor, nonflammable, water cleanable, easy to clean.
- Stable and uniform coloring for all types of tiles

CIS EPOXY 18

COLOUR BASED TILE GROUT

PRODUCT CATEGORY: TILE JOINT FILLER

LIMITATIONS

- For highly absorbent natural stones/ marbles which may form a wet or colored patch when tile grout is applied, do sample test to check for possible staining. It is recommended to use suitable CIS Impregnating sealer on all sides & mask the tiles before grouting.
- Light colors may darken slightly & turns to yellowish due to direct UV exposure.
  CIS EPOXY 18 COLOUR BASED TILE GROUT PRODUCT CATEGORY: TILE JOINT FILLER

TECHNICAL INFORMATION APPLICATION PROPERTIES

(Base + Hardener + Filler)

TEST PROPERTIES	RESULTS
Component Appearance	Base (Part A) – White Viscous liquid Hardener (Part B) – Yellow Viscous liquid Filler (Part C) – Coloured powder
Mixing Ratio	184 (Base) + 80 (Hardener) +740 (Filler)
Mixed Material Consistency	Smooth creamy paste
Mixed Density	1.75 ± 0.05 kg/ litre
Pot life @ 30° C	Min. 50 minutes
Joint Width	2 – 10 mm
Sag Resistant	No-sag

CHEMICAL RESISTANCE PROLONGED CONTACT

Aluminum Bromide, Aluminum Flouride, Baking Soda, Barium Hydroxide, Beer, Boric Acid, n-Butanol, Calcium Chloride, Carbonates, Carbonic Acid, Castor Oil, Chlorides, Chlorinated Paraffin, Citric Acid, Coconut Oil, Cotton Seed Oil, Diesel, Dilute Detergents, Ethanol, Ethylene Glycol, Fats, Ferric Chloride, Fish Oil, Gasoline, Groundnut Oil, Kerosene, Linseed Oil, lubricating Oils, Milk, Nitrates, Olive Oil, Palm Kernel Oil, Palm Oil, Paraffin Wax, Pine Oil, Potassium Hydroxide, Silicates, Sodium Carbonate, Sodium Chloride, Soybean Oil, Sugar, Sulphates, Sunflower Oil, Tannic Acid, Vegetable Oil, Water & White Sprit.

CIS EPOXY 18

COLOUR BASED TILE GROUT

PRODUCT CATEGORY: TILE JOINT FILLER

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

- Ensure 24 hours time interval for grouting after tile fixing.
- The joints must be dry, clean, free of dust & adhesive..
- The joints should not be wet during work.
- press the grout firmly into the joints

MIXING

- Shake the bottle of Hardener and stir the Base prior to mixing.
- Pour Part A (Base) & Part B (Hardener) into a clean mixing pail.
  Mix thoroughly by hand or with a slow speed mixer 250 RPM until liquids are completely blended.
- Add Part C Filler Powder and mix until a uniform color & consistency.
- Avoid entraining air by mixing at very high speed or by over-mixing.
- Use the paste within 40 - 50 minutes from mixing

APPLICATION

- Using a hard rubber squeeze/ grout floater, press the grout firmly into the joints.
- Hold the float at a 90° angle and pull it at a 45° angle diagonally across the joints and tile to avoid pulling out the material. .
- Ensure that joint is filled completely, and grout is not just sitting on top.
  Remove access material on tiles within 60 minutes with help of wet sponge

CLEANING & FINISHING

- Clean off the surplus grout from tile joints and tiles within 30-45 minutes/ before the product dries.
- Initially use a rough textured sponge dampened with water to remove the grout residue.
- Use the damp sponge in a circular motion and keep it relative to the tile surface to achieve the flush joint & taking care not to drag grout from the joints.
- Clean off any light residue of tile grout left on the tile surface using an alkaline detergent/ CIS Stain o cleaner without disturbing the joint finish.
- Tools and containers should be cleaned using clean water when the grout is still fresh.

CLEANING & FINISHING

• Please take right/ complete proportion of all components (base, hardener & filler). Any change in proportion would not give correct product performance.
• Do not apply on wet/damp tile joints. Always apply on completely dry tile joints.

CIS EPOXY 18

COLOUR BASED TILE GROUT

PRODUCT CATEGORY: TILE JOINT FILLER

- Do not over-mix the material. Over-mixing can reduce the pot life.
- Apply masking tapes along tile joints while working on unglazed floor tiles, porous tiles & natural stones, tiles with matt glaze or textured surfaces.
- While cleaning, change water frequently. Change cleaning cloth/ sponge when they are impregnated with grout.
- Protect from direct rainfall/ foot traffic for at least 24 hours.
- Do not use acid to clean joints. Use CIS Stain o for cleaning purpose.
- Do not allow grout to harden on the face of the tile. Clean promptly

SHELF LIFE

18 months for sealed pack when stored under cover, out of direct sunlight, dampproof condition and protect from extremes of temprature

PACKAGING

5,10 KG

CIS PU INJECTION

THREE COMPONENT PU BASED INJECTION GROUT

PRODUCT CATEGORY: POLYURETHENE GROUTING SYSTEM

PRODUCT DISCRIPTION

CIS PU INJECTION is based on MDI (Methylene Diphenyl iso cyanate) polyurethane pre- polymer & accelerator. The system only reacts when it comes in contact with water, producing a relatively stiff & inert polyurathane foam. It is a 100% solid & solvent free polyurethane grout for quick temperrory closing & sealing of water bearing cracks, cavities and leaks under hydrostatic pressure. The systems foams to 30-40 times its volume in the presence of water & can be an effective means of arresting running water seepage.

AREAS OF APPLICATION

Water stop system for running water in Defective concrete – (crack & honeycomb)

- Concrete joints
- Drinking water tanks & reservoirs
- Waste water tank
- Sewers, manholes, utility boxes, etc
- Dams & canals
- Tunnels
- Brick / stone masonry
- Pipe intrusions
- Soil stabilization

FEATURES & BENEFITS

- Viscosity – Very low viscosity benefits penetration into hairline cracks
- Solids – 100% solid & solvent free composition helps in shrinkage free grout
- Foaming – On reaction with water foams around 30 times which benefits filling of wider cracks & honey combing of concrete structures (hydrophobic in nature)
- Bonding – Bonds strongly to dry & wet concrete, bricks & stones
- Hygiene - It is safe & suitable for drinking water contact
- Non-toxic – It is CFC & solvent free hence non-toxic

SURFACE PREPARATION

CIS PU Injection is a high quality, low viscous PU injection foam resin which on contact with water expands its volume & cures to very dense, rigid & flexible foam with a very fine cellulose structure

- Due to its high capillary penetration and activity in damp & water bearing structure, it seals the cracks of

more than 0.2 mm in built, hence the material is ideal for filling gaps & cavities at constant mixing stability On contact with water, the foam formation begins after approximately 15 seconds at ambient temperature.

- The reaction speed depends on temperature of the mixed material, building structure & contact water. Temperature more than 200C accelerates the foam formation & curing.
- Prior to injection procedure check the nature of building structure, type of cracks and hydrostatic conditions & water quality. Clean the cracks & crack edges so that the source of water leakage can be detected.
- Remove all spalled layers of plasters from the area of the injection level and patch all joints and defective brickwork with quick drying cement mortar. Drill holes taking into consideration the actual size (thickness) of the wall/concrete member and the size & length of injection packers to be used. The packers must be fixed tightly in the drill holes
- In the case of crack injections into brickwork and horizontal water stops, drill the holes into the bricks to ensure that the mechanical packers are fastened tightly. When tightening the packers, make sure that the injection hose rests comfortably on the zerk or button head fittings.

MIXING

Empty components A and B which are provided according to the required mixing ratio of 10:1 (parts by volume) or measured out in separate containers by the user - completely into a mixing vessel and mix homogeneously.

APPLICATION - INJECTION PROCEDURE

- CIS PU Injection resin is a low viscous material, to be injected by means of a single or two component injection pump.
- Mixed material must be used immediately because high air humidity may cause a skin formation over the material surface. In case skin is formed, remove the skin prior to use of the material otherwise the pump will get chocked.
- The workability of the mix is approximately 2–3 hours. Start injecting at a pressure depending upon the nature of the building structure, hydrodynamic & hydrostatic condition and the desired depth of penetration.
- Carry out the injection at intervals so that it can be concluded from the reaction of the material with moisture inside and decided whether to continue or stop the injection process.
- The material can be injected at temperature of more than 50C. The best results can be achieved between 15 to 250C. Higher initial temperatures accelerate the reaction. For durable & complete crack sealing, a secondary injection using CIS PU Injection is necessary depending on the object. The secondary crack injection usually is carried out through the same holes. In case the secondary injection is carried out much later then it may be necessary to install new packers in different position.

FINAL WORK

After the curing process of the injection resin (approx. 24 hours after the injection), remove the packers and close the drill holes with suitable mineral building materials (quick-binding cement, swelling mortar)

CIS PU INJECTION

THREE COMPONENT PU BASED INJECTION GROUT

PRODUCT CATEGORY: POLYURETHENE GROUTING SYSTEM

PRECAUTIONS & LIMITATIONS

To achieve desired performance kindly mix the entire quantity in one go as it will ensure the consistency of the mix.

PACKING

5.5 KG

214 CIS EPOXY GROUT

TWO COMPONENT EPOXY GROUTING

PRODUCT CATEGORY: EPOXY GROUTING SYSTEM

PRODUCT DISCRIPTION

214 CIS Epoxy grout is used to inject cracks in concrete floors, because it provides penetration, shrink free , strong bonding inside the cracks and excellent resistance to honey combing & chemicals. 214 CIS Epoxy grout is two component epoxy injection material composed of very low viscous liquid epoxy base & a hardener component

ADVANTAGE

- Excellent bond to concrete substrate,brick substacte
- Low viscosity, Deep penetration,
- Chemical Resistant formula
- Suitable for damp surface and dry walls

AREA OF APPLICATION

- Permanent bonding solution for concrete cracks.
- Repair of crack concrete areas in floors, walls, tanks
- Injection in to cracks & honey combing in concrete & masonry.
- Anchoring

METHOD OF APPLICATION

SURFACE PREPARATION

- Surface must be strong, dry, clean & free from dust, oil, grease, curing compounds, coatings & other loose materials. For better performance sand blasting, high pressure water jet cleaning, hydrochloric acid etching, mechanical grinding (by pneumatic tools) & wire brushing may be done.wall or substracts free from acid. In case of acid etching, wash the surface till neutralization.
- Open the cracks & clean by blow of oil free air to ensure complete removal of dust & loose particles.

214 CIS EPOXY GROUT

TWO COMPONENT EPOXY GROUTING

PRODUCT CATEGORY: EPOXY GROUTING SYSTEM

FIXING OF NOZZLES

- Install injection port in case of Injection Packer, drilled hole larger than packer size & depth at least 1/3 of structural thickness
- Install injection port along the length of etch crack. The distance between each nipple will depend on width & depth of crack. spacing should be close enough to ensure that the resin penetrates along the cracks till the next point of injection. - In case of Injection packer, insert packer to the drill holes and fix tight to the hole - In case of Injection nipple, use CIS Epoxy grout to fix nipple to crack surface
- The surface of the cracks in between the nipples should be sealed with CIS Epoxy grout about 30 mm wide & 2-3 mm thick band. Incase the crack is through & through of a wall or slab, cracks at both the sides must be sealed in similar . First fix the nozzles in the front portion crack, then fix the nozzles at midway points of the front nozzles. This ensures complete filling of grout into crack & surrounding areas.
- The repaired work shall be allowed to cure for at least 10 hrs at 35 0C, at low temperature of 10-12 0C curing time is extended and the applicator must ensure that the surface sealant has adequately cured prior to continuing the work.
- One end of the injection hose shall be attached to the lowest nipple on vertical cracks or to either end of the horizontal cracks. Alternative methods of resin injection are currently in use, they include the system where injection nipples are bonded to the substrate.

MIXING

Thoroughly mix the entire hardener and base resin contents until the liquids become clear
Injection

- 214 CIS Epoxy grout should be used with standard injection equipment having closed containers. The injection pressure should be at least 0.2 N/mm2 (2 bar).
- Only mix sufficient resin that can be used within the pot life of the materials.
- After completion of the injection work, the injection system shall be allowed to cure for 24 hours and shall be left undisturbed for this time

PRECAUTIONS & LIMITATIONS

- Use the material within the pot life expiry period.
- Mix entire pack quantity.
- Do not dilute the material with solvents to reduce the viscosity.
- Ensure that nozzles are fixed properly without any air leakage.
- Do not add water or any solvent in material

STANDARD COMPLIANCE / SPECIFICATION

Meets the requirement of BS 6319 & ASTM C 881 standards

214 CIS EPOXY GROUT

TWO COMPONENT EPOXY GROUTING

PRODUCT CATEGORY: EPOXY GROUTING SYSTEM

SHELF LIFE & STORAGE

12 months from in unopened condition. store in a cool, dry place

SAFETY PRECAUTIONS

- As with all chemical products, caution should always be exercised. Protective clothings, such as gloves and goggles, should be worn.
- Treat any contact to the skin or eyes with fresh water immediately. should any of the products be accidentally swallowed, do not induce vomiting but call for medical assistance immediately.
- Reseal all containers after use and ensure product is stored as instructed.
- Do not smoke when handling this product.
- Do not inhale.

PACKING

3.2 kg. Set (A+B)

CIS POLYSULPHIDE POLY +

TWO POLYSULPHIDE GROUTING

PRODUCT CATEGORY: POLYSULPHIDE GROUTING SYSTEM

PRODUCT DISCRIPTION

CIS POLYSULPHIDE POLY + , Pour Grade is a two component Polysulphide sealant. It is used for sealing expansion joints where large movement is anticipated in concrete construction and for joints between diverse construction materials. It is suitable for sealing joints subjected to vehicular traffic and is chemically resistant to water, fuels, oils and solvents

USES

- Wherever a permanently flexible seal is required, it is used in horizontal expansion joints in many types of buildings and civil engineering constructions such as
- Precast concrete elements
- Dams, Reservoirs and water treatment plants
- Residential & Commercial buildings
- Subways, bridges, culverts, tunnels Rigid pavements of highways, airport runways, aprons, etc

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion with most common construction materials
- Resistant to UV and weathering in exposed conditions
- High movement accommodation
- Good chemical resistance
- Permanently elastic and forms watertight seal
- Flame and fuel resistant
- Easy to use
- Economical

SUBSTRATE PREPARATION

- All surfaces must be clean, dry and free from any loosely adhering particles.
- Check the joints edges for soundness and if found weak cut recess and fill up with suitable repair mortar (Consult CIS Technical services).

CIS POLYSULPHIDE POLY +

TWO POLYSULPHIDE GROUTING

PRODUCT CATEGORY: POLYSULPHIDE GROUTING SYSTEM

- Correct joint depth can be established by inserting polyethylene based Backer Materia,glass rod,etcl tightly into the joint. When the joints have been filled with fibre filled board, this must be raked back to the required depth. Use bond breaker tape over the backer material. Protect surfaces with masking tape.

MIXING

The two components are mixed in the ratio Comp A : Comp B = 92 : 8 by weight with a low speed mixer (300 - 600 rpm). Mix for approximately 8 - 10 minutes until a smooth, even consistency is achieved.

APPLICATION METHOD / TOOLS

If required, protect the surface with masking tape. Install the sealant into the joint without trapping air Tool off with a spatula to lightly concave profile Remove masking tape.

CLEANING OF TOOLS

Clean all tools and application equipment with Solvent immediately after use. Hardened / cured material can only be mechanically removed.

HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

PACKING

5 KG

CIS SUPERBOND PU 267

PU BASED WATERPROOFING MEMBRANE

PRODUCT CATEGORY: WATERPROOF POLYURETHENE COATING

PRODUCT DISCRIPTION

Description CIS SUPERBOND PU 235 is liquid-applied, highly permanent elastic, cold applied and cold curing, one component polyurethane membrane used for long-lasting waterproofing. Solvent based with low VOCs properties. CIS SUPERBOND PU 235 is based on pure elastomeric hydrophobic polyurethane resins, which result in excellent mechanical, chemical, thermal and natural element resistance properties. CIS SUPERBOND PU 235 reacts with ground and air moisture to cure..

APPLICATION AREAS

- Waterproofing of Wet Areas in Bathrooms, Kitchens, Balconies
- Metal and asbestos roofs
- Swimming Pool, artificial lakes and ponds
- Roof gardens , Retaining wall and foundations
- Auxiliary Rooms , Roofs/ Metal/ Asbestos, Terraces and Podiums (to be protected with screed), etc.
- Can be coated only from positive side on substructure
- Cut and cover tunnels,

METHOD OF APPLICATION

SURFACE PREPARATION

Old & Fresh Concrete Surface

- Allow fresh concrete to cure 28 days.
- Concrete surface must clean, strong, free of all loose dirty materials, and dust free, oil stain, wax, liquid coating/paint, concrete curing agent, grease or other stains that would affect waterproof coating adhesion.
- Concrete surface where there laitance, algae, mould, remove them with grinding machine and clean surface afterwards.
- Prepare cement surface or mineral mix cement surface by cleaning by using grinding machine or chipping machine to remove all defect surfaces such as peel off surface, weak concrete, cavities, etc. Do not use water to clean surface to prevent accumulation of moisture. Use grinding machine or chipping machine to smoothen surface and remove all loose dirty materials, sweep off or use blower to blow off dirt or vacuum cleaner to suck in dirt.
- WARNING: Do not wash surface with water.

CIS SUPERBOND PU 267

PU BASED WATERPROOFING MEMBRANE

PRODUCT CATEGORY: WATERPROOF POLYURETHENE COATING

SURFACE LEVELLING

- Surface must be smooth, for laitance remove laitance surface by saw concrete or scrubbing down with wire brush.
- Adjust slope 1:100 on roof terrace application to allow water to drain.
- All surface area must be smooth and any defects concrete surface can be apply by use structure repair cementitious mortar CIS HYBRID POLYMER to fill in damage area, afterwards allow repair area to cure for 7 days prior to other work.
- WARNING: Do not wash surface with water.

REPAIR CRACKS & PLUG HOLES

- For concrete surface with, weak concrete, peel off surface, hollow sound check from knock at concrete condition remove by grinding machine or chipping machine till reaching strong concrete.
- For concrete surface with pinhole or honeycomb can be apply by using structural repair cementitious mortar CIS HYBRID POLYMER to fill in defects area, afterwards allow repair area to cure for 7 days prior to other work.
- For concrete surface with >3mm crack, groove U shape on crack area to big enough for apply PU Sealant to seal crack and allow to cure a day prior to working on area.
- Clean concrete expansion joints and control joints of dust, residue or other contamination. Widen and deepen joints (cut open) if necessary. The prepared movement joint should have a depth of 10-15 mm. The width: depth ratio of the movement joint should be at a rate of approx. 2:1. Fillet on joints wall and floor
- For concrete wall and floor should be made fillet/chamfer with PU Sealant. Allow sealant to cure for a day prior to other work.
- Any corners or angles should be cut.
- Apply a coat of CIS SUPERBOND PU 235 200 mm wide centered over all large cracks and while wet, cover with a correct cut stripe of the Geotextile Fabric. Press it to soak.
- Saturate the Geotextile Fabric with enough CIS SUPERBOND PU 235until it is fully covered.
- Allow 12 hours to cure.

MIXING

- CIS SUPERBOND PU 235 is premix product; stir content till a homogenous paste is form prior to applying.
- Do not add more water when mixing.

APPLICATION

Pour the CIS SUPERBOND PU 235 onto the primed surface and lay it out by roller or brush, until all surfaces is covered. You can use airless spray allowing a considerable saving of manpower. After 12-18 hours (not later than 48 hours) apply another layer of the CIS SUPERBOND PU 235

- For demanding applications, apply a third layer of CIS SUPERBOND PU 235. Reinforce always with the geotextile fabric at problem areas, like wall-floor connections, 90º angles, chimneys, pipes, waterspouts

(siphon), etc.
- In order to do that, apply on the still wet CIS SUPERBOND PU 235 a correct cut piece of geotextile fabric, press it to soak, and saturate again with enough CIS SUPERBOND PU 235

FINISHING

- Allow 1st coat to dry 1 to 2 hours prior to applying 2nd coat perpendicularly, do not add more water in mixture when applying
- When applying floor to wall joint apply top coat at least 30 cm height above floor level
- Allow top coat to cure 7 days after applying application steps above prior to opening to traffic

COVERAGE

1.2 – 1.5 kg/m2 total consumption when applied in two or three layers at 1 mm approximately dry film thickness

PACKAGING

CIS SUPERBOND PU 235 is supplied in 25 kg, Barrels. The CIS SUPERBOND PU 235 is supplied in white.

CIS CLEAN MASTER

CLEANING SOLUTION FOR MOSAIC, CERAMIC, GLAZED TILES, WASHBASIN, PRIVY BASIN

PRODUCT CATEGORY: REPAIR

PRODUCT DISCRIPTION

CIS CLEAN MASTER is a high quality rapid active cleaner and degreasing solution for use on tiles, bath tubs, wash basin, privy basin and concrete etc. Whitish spot/layer as normally observed in the bathroom under plastic/metal buckets (normal detergent is not helpful) can be removed with ease.
Rapid removal of white yellowish spot/layer along with water stains over tiles, cement stains, grime, oil, paint stains, grease, moss and wax from concrete, asbestos, terrazzo and ceramics.

FEATURES & BENEFITS

Does not damage joints between ceramic tiles, even those grouted with coloured
Prouducts. Remove stains easily.
Degreases the tile surface easily for soaps, scum, effloroscene, mineral deposit. Cleans for ceramic, porcelein & vitrified tile & Grout.
Does not effect glaze of tiles.

AREAS OF APPLICATION

Cleaning of surface of floors in kitchen, bathrooms, garages, factories, general building sites where efficient cleaning is required.
An ideal material for cleaning the surface before application of epoxy products. Cleaning for degreasing tiler in bathroom, toilets, wash basin etc. Can be used for routing tile cleaning with mop in bathroom & floors

METHOD OF APPLICATION

For mild blemish spots/ layers, mix CIS CLEAN MASTER with water and soak the cloth or sponge in the diluted solution and rub the surfaces till the spots/layers are removed. For stubborn spots/ layers neat CIS CLEAN MASTER liquid (without mixing with water) shall be used for cleaning.
For cleaning of mild blemish spots/ layers, dilute RCC 1 : 1 proportion with water. Use soak cloth or sponge and clean the surface till the spots/ layers are removed.

CIS CLEAN MASTER

CLEANING SOLUTION FOR MOSAIC, CERAMIC, GLAZED TILES, WASHBASIN, PRIVY BASIN

PRODUCT CATEGORY: REPAIR

PRECAUTIONS & LIMITATIONS

It is advisable to use clinical gloves while using CIS CLEAN MASTER as some people with sensitive skin may experience mild itching or irritation.
CIS CLEAN MASTER before using for cleaning of coloured concrete, granite, marble stone flooring with corner test because it may etch the surface. (If stone shows discolouration up to 24 hrs. after application, do not use product).

PACKING

5 litre, 10 litre, 50 litre

SHELF LIFE

12 Months from MFD

CIS RUST – O CLEAN

LIQUID FOR CLEANING RE-BARS & STEEL SURFACES

PRODUCT CATEGORY: REPAIR

PRODUCT DISCRIPTION

CIS RUST O - CLEAN is based on chloride free chemical & additive solution in water. it is used as rust remover which effectively cleans rust from steel surfaces, before application of any protective coating.

TYPICAL APPLICATIONS

- On re-bars during repairs to reinforced concrete structures.
- Maintenance of mild steel structures like tanks, water pipelines, shuttering plates and other corroded steel surfaces.

FEATURES

•Ease of application - Ready to use, easily applicable by brush.
•Penetration & effect - Effective rust removal even from areas difficult to reach & penetrate.
•Chloride free - Contains no chloride hence no chance of enhancing further corrosion.
•Economical - Cost effective because of good coverage.

METHOD OF APPLICATION

SURFACE PREPARATION

In case of heavy rusting of steel reinforcement, M.S. pipelines, M.S. plates or any other M.S. surface, remove the loose rust by wire brushing, chipping, hammering or grinding so that majority of rust scale is removed.
APPLICATION

- Apply CIS RUST O - CLEAN on affected surface by using cotton waste swab or by brush application. Leave the surface to react with CIS RUST O - CLEAN for at least 15 to 30 minutes.
- The rusty surface will change its colour to original blackish steel, remove the same with cotton cloth. Then remove the loose rust particles by scrubbing or simple dusting with the brush.
  Wash the steel surface with water jetty to remove all the acidic residue left on the bar, and clean with cotton cloth

CIS RUST – O CLEAN

LIQUID FOR CLEANING RE-BARS & STEEL SURFACES

PRODUCT CATEGORY: REPAIR

PRECAUTIONS & LIMITATIONS

CIS RUST O - CLEAN is acidic in nature, when applied to clean the rusted rebars. Ensure that traces of acid are removed completely by washing with a water jet, before applying coatings or primers. For thorough removal of rust and cleaning steel bar to SA 2 1/2 standards, sweep blasting is recommended.

PACKAGING

1 Litre

COVERAGE / USAGE

Approximately 15 to 20 m2 / litre

HEALTH & SAFETY PRECAUTIONS

As with all chemical products, caution should always be exercised.
Use of safety hand gloves is recommended.
Treat any contact to the skin or eyes with fresh water immediately.
Should any of the products be accidentally swallowed, do not induce vomiting but call for medical assistance immediately

CIS CRACK FIX

NON SHRINKING HIGH STRENGH MODIFIED FILLER FOR CRACK REPAIR

PRODUCT CATEGORY: CRACK FILLER CEMENT

PRODUCT DISCRIPTION

CIS CRACK FIX POWDER is a cement based powder material for filling cracks in plastered surfacetatic Cracks filled with CIS crack fix Powder enhances the subsequent paintings quality and life.

AREAS OF APPLICATION

- To fill the static cracks of upto 5 mm sizes in horizontal or vertical areas of buildings & structures.
- To level the undulation of the unplastered or plastered ceilings and walls before painting.
- To provide smooth finish to brick, stone, and wood works.

METHOD OF APPLICATION

SURFACE PREPARATION

- Remove old caulk from joints. The edges of the joints should be neat and sound.
- Make sure that surface is clean & free from puddle of water.
- The surface should be free of loose debris.
- Contaminations of oil, grease or bitumin should be completely cleaned.
- Damp wood should be allowed to dry out and decayed wood should be removed.
- Roughen smooth surfaces to give a good key.

APPLICATION

For crack filling – Fill the mixed paste into the crack by spatula or putty knife blade. Fill excess material and tool it by putty knife blade pressing against crack so that air voids get filled. By wet finger tool the surface of material in to a concave nature by pressing against joint edges.

- For Surface leveling – The mixed smooth paste should be applied by painter blade on the dampened wall or ceiling. The material should be applied at the desired thickness in bottom- to -up fashion to avoid blade marks. For multiple coat applications the previous coat should be allowed to cure for minimum 6 hrs. The subsequent coat should be at the right angle to the previous coat.

CIS CRACK FIX

NON SHRINKING HIGH STRENGH MODIFIED FILLER FOR CRACK REPAIR

PRODUCT CATEGORY: CRACK FILLER CEMENT

- For wood grain & pipe lagging – For wood grain, apply the buttery consistency mixed material by brush. Mix mineral wool with the buttery mix for pipe lagging & awkward places.

COVERAGE

16- 20 running meters/kg for 5 mm x 5 mm groove

SHELF LIFE & STORAGE

12 months from date of manufacturing. Store in a cool & dry place, away from sun light

PACKING

5 KG, 25 KG

CIS LEAK PLUG SUPER

RAPID SETTING POWDER FOR WATER LEAKAGE & REPAIR

PRODUCT CATEGORY: REPAIR

PRODUCT DISCRIPTION

CIS LEAK PLUG SUPER is an instant leak plugging compound. It is ideal for instantaneous sealing of leaks and plugging wet cracks in concrete and masonry surfaces. It is specially formulated to stop the flow of running water.

AREAS OF APPLICATION

Basements, pits, dams, cellars, tunnels (ducts), concrete pipe, water retaining structures and rcc water tanks

PRECAUTION & LIMITATIONS

CIS LEAK PLUG SUPER will plug leakages only on cementitious substrates. Only used for plugging leakage instantly, till permanent repairs are carried out. Permanent repairs must be carried out using appropriate products of CIS INFRACHEM PVT LTD.

APPLICATIONS

Surface preparation Repair areas should be cut back to 15 mm. depths minimum. Feather edges must not be allowed. Surface should be clean without loose material dust; laitance and anything affect bonding between cementitious substrate and material

MIXING

- CIS LEAK PLUG SUPER should be added to clean water by 1 kg per 0.20 liters of water. CIS LEAK PLUG SUPER Mix in a suitable mixing bucket by using a trowel or glove hand.
- CIS LEAK PLUG SUPER is a rapid setting cementitious product. Mix only a quantity which can be placed in setting time. After making them to feel warm, it can be filling. It can plug in the prepared pan. Press the immersing tightly for a moment and feel the material hardens.
- CIS LEAK PLUG SUPER it hardens within 1-2 minute.

CIS LEAK PLUG SUPER

RAPID SETTING POWDER FOR WATER LEAKAGE & REPAIR

PRODUCT CATEGORY: REPAIR

APPLICATION APPLIED

CIS LEAK PLUG SUPER in repair area and ensure product maximum contact to substrate before setting time. CIS LEAK PLUG SUPER should be used and held in place until the initial setting time

TECHNICAL INORMATION

PROPERTIES	STANDRAD METHOD	RESULTS
SETTING TIME IN MINUTES		1-2 MINUTES
MPARASIVE STRENGTH 1 HRS 6 HRS 1 DAY 7 DAYS 28 DAYS	ASTM C 109/C109M-01	 102 ksc. 111 ksc. 134 ksc 278 ksc. 398 ksc.
TENSILE STRENGTH 1 HRS 6 HRS 1 DAY 7 DAYS 28 DAYS	ASTM C 307-03	 11 ksc. 13 ksc. 15 ksc. 19 ksc. 20 ksc.
Fire Resistance	(EN 13501-1)	Fire rating, Classified A1 – CIS LEAK PLUG SUPER will not contribute in any state of the fire including the fully developed fire.

PACKING

5KG, 10 KG, 25 KG

STORAGES

12 month in sealed container kept under shed area.

HEALTH & SAFETY PRECAUTIONS

Wear a mask while working. It is advisable to use hand gloves and goggles

CIS ZINC COAT - 411

FOR CATHODIC PROTECTION TO RE - BARS & STEEL SUR FACE

PRODUCT CATEGORY: REPAIR

PRODUCT DISCRIPTION

CIS ZINC COAT 411 is a two-component system based on metallic Zinc and epoxy resin, hardener & additives which on mixing gives a grey coloured liquid CIS ZINC COAT 411 is recommended for coating on steel reinforcement or steel surfaces as an anti corrosion primer. The product actively resists corrosion within the confines of the repair location and avoids the generation of incipient anodes in immediately adjacent locations

AREAS OF APPLICATION

For coating of re-bars and steel surfaces.

FEATURES & BENEFITS

Passivation - Active zinc-rich system combats corrosion by electro chemicals means.
Ease of application – Easy to mix & applicable by brush or spray.
Time saving – Saves time because it dries quickly (touch dry time 15 to 45 minutes).
Compatibility – Excellent compatibility and suitable primer for steel surfaces and can be over coated by epoxy or polyurethane coatings.
Bonding – Bonds strongly to cement concrete & mortars.
Chemical resistance – Resistance to commonly used acids & alkali.

METHOD OF APPLICATION

SURFACE PREPARATION

Expose fully any corroded steel in the repair area and remove all loose scale and corrosion deposits. Care should be taken to clean the back side of exposed steel bars as well. Grit blasting is recommended for this purpose.
The application of CIS Zinc coat must take place immediately on a dry steel surface after completion of the preparation work and not later than three hours

APPLICATION

Apply first coat CIS ZINC COAT 411 using a suitable brush, making sure that the back of exposed steel

CIS ZINC COAT - 411

FOR CATHODIC PROTECTION TO RE - BARS & STEEL SUR FACE

PRODUCT CATEGORY: REPAIR

reinforcement bars are properly covered.
Apply second coat, in case of any discontinuity in the first coat, after drying of first coat for minimum 1 hour.
The primed surface should not be left exposed for a longer time. The application of concrete repair material should proceed as soon as the CIS ZINC COAT 211 is fully dried.

PRECAUTIONS & LIMITATIONS

CIS ZINC COAT 411 should not be applied when the temperature is below 10OC & is above 40OC.
It is flammable so prevent from naked flame.
Keep away from source of ignition.
In case needed, fire extinguish with Co2 or foam extinguisher.

TECHNICAL INORMATION

PROPERTIES	RESULTS
Test Temp (OC)	30 C
Pot life of mixed material @30OC (minutes)	150 minutes
Specific gravity (g/cc)	2.01 to +/-0.01
Thickness of application (W.F.T), microns	70 - 75 per coat
Hard drying time (hrs.)	24 hrs
Coverage	6 m2 / ltr at DFT of 100 microns in 2 coats

HEALTH & SAFETY PRECAUTIONS

Like for all chemical products, caution should always be exercised. Protective clothings such as gloves and goggles should be worn. Treat any contact to the skin or eyes with fresh water immediately. Should the product be accidentally swallowed, do not induce vomiting but call for medical assistance immediately.

PACKING

2 KG

SHELF LIFE

12 MONTHS FROM MFD WHEN UNOPNED AND PROTECTED FROM SUNLIGHT

CIS COALTAR COAT - 667

EPOXY BASED COALTAR COATING

PRODUCT CATEGORY: REPAIR

PRODUCT DISCRIPTION

CIS COALTAR COAT – 667 is a solvent free, epoxy resin system modified with refined tar pitch. The combination of epoxy resin
with tar gives the excellent adhesion and chemical resistance of epoxy, together with the flexibility and superior water resistance
of tar based materials.

TYPICAL APPLICATIONS

Damp proof membrane.
Water and chemical resistant coating for pipes, sewerage and effluent plants.
Anti-skid applications in conjunction with non-slip aggregates.
Protection of bitumen, asphalt and tar based surfaces from attack by fuels and oils.

FEATURES & BENEFITS

Excellent all round water and chemical resistance.
Suitable for most substrates and application techniques.
Excellent in all waterproofing applications.
Excellent adhesion and flexibility.
Complies with ASTM C188 Type III bonding of skid-resistant surfacing.

METHOD OF APPLICATION

SUBSTRATE PREPARATION

Surfaces to be treated should be clean, dry,free of dust, grease and any other contaminants.
Concrete surfaces should be free of laitance (grit blast or scabble). Steel should be cleaned and abraded to a bright, profiled metal finish with no rust or corrosion.

MIXING

CIS COALTAR COAT – 667 is supplied as two component product i.e. resin and hardener components.

CIS COALTAR COAT - 667

EPOXY BASED COALTAR COATING

PRODUCT CATEGORY: REPAIR

The packs are pre-weighed in the correct proportions for mixing. Mix ratio is 8 parts resin to 1 part hardener by weight. A suitable slow speed electric drill stirrer should be used. If the pack is to be split the resin component must be thoroughly mixed prior to use.
Mix resin and hardener for at least 1 minute, paying special attention to sides and bottom of container.

APPLICATION – INJECTION PROCEDURE

On highly absorbent surfaces such as cement boards, concrete etc. dilute the first coat with 10% Dr. Fixit Resin Cleaner Solvent as a priming coat.
Apply using brush, roller or airless spray.
Apply as many coats as required to achieve desired thickness of finished coating. Allow to set between coats but apply subsequent coats within 24 hours.
Working time is 40 - 50 minutes at 20oC. Full cure to achieve maximum chemical resistance 72 hours at 20 C constant.
If CIS COALTAR COAT – 667 coating is to receive another system i.e. tiles, resin mortar or epoxy screed, it is preferable to "blind"
the surface with non-slip aggregates before initial set, in order to provide a "key" for subsequent finishes.

CLEANING

Remove surplus material from tools and equipment with CIS CLEAN MASTER

THEORETICAL COVERAGE

Up to 4 m2 per litre at 250 microns DFT dependent on application

SHELF LIFE

Shelf life is 12 months from the date of manufacturing if stored in original and unopened packaging in a cool dry place away from direct sunlight

PACKAGING

15 litres

CIS PU 145

MOISTURE CURED POLYURETHANE ELASTOMERIC JOINT SEALANT

PRODUCT CATEGORY: POLYURETHENE SELENT

PRODUCT DISCRIPTION

CIS PU 145 is a single component, Moisture cured Polyurethane elastomeric sealant, which resists crack arising out of movements of joint materials. It conforms to EN 14187-S 2003, BS 5212, ASTM C-920, ISO-11600

APPLICATION

- For all types of construction joints both Horizontal and Vertical.
- Runways.
- Roads.
- Bridge decks.
- Docks and harbors.
- Civil structures including building – residential, commercial and industrial and prefabricated constructional panels.
- Can be used for joints of concrete, metal and glass.

ADVANTAGES

- Single component ready to use.
- Excellent adhesion to most of the building materials.
- Good weathering and ageing properties.
- Excellent workability.
- Can be paintable.
- Fuel Resistant.
- Non-staining. Bubble free curing.
- Resistant to water, dilute caustic solution & acid, saline water, oil, etc.

APPLICATION METHODOLOGY

SURFACE PREPARATION

- Remove all loose gravel, dirt, oil, grease and foreign matter by jet of dry air and clean the surface mechanically or by grinding to make it smooth before application.
- Concrete surface must be dry and stable at least for 28 days.
- Ensure that the moisture content in the prepared surface does not exceed 5% immediately before application of ShaliSeal® PU.

CIS PU 145

MOISTURE CURED POLYURETHANE ELASTOMERIC JOINT SEALANT

PRODUCT CATEGORY: POLYURETHENE SELENT

- To avoid adhesion of spill-over material beside joint, use masking tape at floor level beside both sides to get sharp edged neat and clean joint.
- Use back up material to avoid third face adhesion and to avoid contact between joint forming board & sealant.
- Use primer on vertical side faces of the joint to ensure strong bonding between substrate and sealant.

APPLICATION OF MATERIAL

- Use Extruded polyethylene rod of diameter of 25% more of the width at the base as separation layer, construction & control joints as back up material to avoid 3-face adhesion and to avoid contact between joint forming board & sealant.
- Prime the surface with CIS PU 145 @ 7 m2 / L in case of concrete surface and 10 m2 / L in case of metal surface.
- After primer is surface dry and noticeable surface tack is generated, apply CIS PU 145 from the gun slowly and fill. Smooth out with soapy water by pressing the mastic against the edges and the joint.
- Remove protection strip. Cleaning & Maintenance Clean the equipment with solvent like Xylene, Toluene. Scrap off cured sealant on the equipment. Health & Safety
- Avoid contact with skin / eyes and avoid swallowing.
- Ensure adequate ventilation and avoid inhalation of vapour.
- Wear suitable protective clothing, gloves and eye protection.
- In case of skin contact, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of eye contact, wash with plenty of clean water and seek medical advice.
- If swallowed, seek medical attention immediately. Do not induce vomiting. Packing Available in 600 ml sausage. Storage Keep in cool dry place, under the shed, away from heat and humidity. Store in proper ventilated room and temperature should be between 10 - 25°C. Shelf Life 12 months in original unopened sealed condition.

PACKAGING

200 ml Sausage

CIS CLEAR 003

CLEAR RTV SILICONE ADHESIVE SEALANT

PRODUCT CATEGORY: SILICON SEALANT

PRODUCT DISCRIPTION

CIS Clear 003 Silicone Adhesive Sealant is a general purpose, single component, room temperature vulcanizing (RTV) compound, designed for the sealing of mechanical assemblies. Upon curing from the exposure to moisture in the air, this non-sagging paste forms a tough, flexible, waterproof seal of silicone rubber, which resists aging, weathering and thermal cycling without hardening,
shrinking or cracking.

PRODUCT BENEFITS

- Easy application
- Applied to horizontal or vertical surfaces
- Waterproofs
- Insulates
- Unaffected by vibration
- Non-flammable
- Non-toxic

TYPICAL APPLICATIONS CIS CLEAR 003 SILICONE ADHESIVE SEALANT IS AN EXCELLENT ALLPURPOSE ADHESIVE/SEALANT FOR THE FOLLOWING MATERIALS:

- Metal
- Glass
- Wood
- Plastic
- Silicone resin
- Vulcanized silicone rubber.
- Ceramics
- Natural and synthetic fibers
- Painted surfaces Bonds, seals, repairs, mends and secures:
- Windshields (not for installation)
- Windows
- Door frames
- Vinyl tops

INSTRUCTIONS FOR CIS CLEAR 003

1. Clean and dry all flange surfaces to be sealed.
2. Remove black cap from top of extension nozzle.

CIS CLEAR 003

CLEAR RTV SILICONE ADHESIVE SEALANT

PRODUCT CATEGORY: SILICON SEALANT

3. Turn nozzle extension one complete turn (360^0) counterclockwise.
4. Depress finger trigger and apply a continuous 1/16 inch to 1/8 inch Power Bead to one surface.
5. Apply a continuous and even bead of silicone to one surface.
6. Assemble parts immediately while silicone is still wet.
Secure or tighten as required, avoiding excessive squeeze-out.
7. Pressure should be applied to parts for 24 hours until the silicone is fully cured

PACKAGING

250 ml Cartridge

CIS MICRO 661

FLOWABLE MORTAR FOR REPAIRS

PRODUCT CATEGORY: MICROCONCRETE

PRODUCT DISCRIPTION

CIS MICRO 661 is a ready to use micro concrete dry powder which requires only addition of clean water at site to produce a free
flowing non shrink repair micro concrete. It is composed of good quality cement, properly selected aggregates & additives. It is
used & designed for repairing of damaged reinforced concrete elements like columns, beams & structure where the areas are
restricted or not easily accessible for proper placement of concrete using vibrator. CIS MICRO 661 has excellent flowability,
workability & proper particle size to reach small & congested reinforcement.

FEATURES & BENEFITS

- Can be pumped or poured into restricted locations.
- Flowable - Flowable mortar hence does not require compaction.
- Shrinkage compensation – Controlled expansion system which compensates for shrinkage and settlement in the plastic state.
- Strength - Develops high initial and ultimate compressive strength.
- Moisture resistant - Offers excellent resistance to moisture ingress.
- Durablity - Makes repaired sections highly durable & compatible to parent concrete.
- Thickness build up - Can be applied at 100 mm thickness at one stroke
- Chloride content - Contains no chloride based additive so prevents corrosion of reinforcement.
- Early reinstatement -Rapid strength gain helps in early reinstatement & removal of shuttering.

METHOD OF APPLICATION

1 SURFACE PREPARATION

Clean the surface and remove loose concrete, dust, oil, paint, grease, waterproof coating, etc.
Expose fully any corroded steel in the repair area and remove all scale and corrosion deposits. Light shot blasting is highly recommended. Apply CIS RUST REPAIR for rust free bars.
For Cathodic Protection, apply CIS ZINC COAT 411 over the cleaned re-bars and allow it to dry before pouring of CIS MICRO 661

Saturate the substrate with water to prevent absorption of water from the mixed material. In case of a very old concrete substrate, it should be primed by applying one coat of CIS SUPER BINDER . Allow the bonding agent to reach tacky condition before pouring of mix concrete.

2 MIXING

Use PAN Mixer for mixing of CIS MICRO 661.
Charge 85-90 % of clean & potable mixing water (3.75 to 4 liters per 25 kg bag) to a PAN Mixer.
Start addition of Micro Concrete powder slowly under continuous mixing. Keep mixing for 2 minutes. Add balance quantity 15 –20% of mixing water & again mix for another 2-3 minutes to form a homogeneous, free flowing, uniform & lump-free mix.

3 APPLICATION

Pour or pump the mixed CIS MICRO 661 into a watertight shuttering.
Cure the repaired concrete for minimum 7 days before removing the shuttering or alternatively use Dr. Fixit Curing Compound for curing. Precautions & Limitations
CIS MICRO 661 can applied in section upto 100 mm depth. For thickness more than 100 mm, addition of pre-calculated aggregates may be required. Consult technical team for more details.
Strictly follow water-powder ratio as specified.
Ensure that the shuttering is 100% watertight. Ensure full exposure of reinforced steel.
Consult structural engineer if the diameter of rebar is reduced by more than 20% than the original diameter. Replacement or provision of additional steel shall be done in consultation with structural consultant

THEORETICAL COVERAGE

1.3 m2 per 25 kg pack at 10 mm thickness

SHELF LIFE & STORAGE

Shelf life is six months from the date of manufacturing. Store at cool & dry place in unopened condition.

CIS SILICAFUME 29KF

DENSIFIED SILICA FUME

PRODUCT CATEGORY: CONCRETE ADDITIVES

PRODUCT DISCRIPTION

CIS SILICAFUME 29KF is a concrete additive in powder form based on silica fume technology. It is used as a high effective
additive for the production of high quality concrete

CIS SILICAFUME 29KF is used in :

- High performance concrete
- Structural concrete
- Precast concrete
- Shot Crete applications And other fields of concrete construction where great demands are required on the durability and quality of fresh and hardened concrete.

CHARACTERISTICS / ADVANTAGES

CIS SILICAFUME 29KF contains extremely fine (0.15µm) latently reactive silicon dioxide. The presence of
this substance gives following advantages:

- Improved internal cohesion
- Water retention and increased density when set
- Improved pumping properties
- Improved durability
- Improved water tightness
- Improved surface finish
- Increased resistance to abrasion
- Reduced chloride diffusion
- Improved ultimate strength CIS SILICAFUME 29KF contains no chloride or other potentially corrosive substances.

PACKING

20 KG BAG

RECOMMENDED DOSAGE

3%-15% by weight of cement. The correct dosage for the required properties must be determined by preliminary testing. For optimum result in concrete, always use in conjunction with a CIS superplasticizer or retarder.

CIS SHUTTERING P 600

MOULD RELEASEING AGENT

PRODUCT CATEGORY: DEMOULIND AGENT

PRODUCT DISCRIPTION

CIS SHUTTERING P 600 IS excellent de shuttering oil is specially formulated for construction industry. It is a careful blend of high performance based minral oils and additives with excellent de moulding chemicals.
Further, these oils have optimum viscosity and prevent th formation of rust & sludge . We offer these shuttering oil in different quantity at industry leading prices.

APPLICATION

CIS SHUTTRING P 600 IS used straight from the drum and stirring or mixing is required . shuttering oil is applied by spraying gun, roller, brushes prior to pouring aerated concreate and is recommended for use as a concreate mould relase agent with the protection mould from rust

DILUTION OF CIS PSHUTTRING P 600

This is diluted with water in ratio of 1:4 (1 part of water based shuttring oil and 4 part of water)
This is very economical water based shuttring oil.this gives better coverage area due to less viscosity. we are lending manufacturer of high quality water based shuttering oil

BENEFITS

- Offers very good surface finish in concreate
- Excellent moulding relase characters
- Non toxic
- Incrased wooden plank life / metal shutter life

COVRAGE

20-40 sq.mtrs / ltr in ideal condition

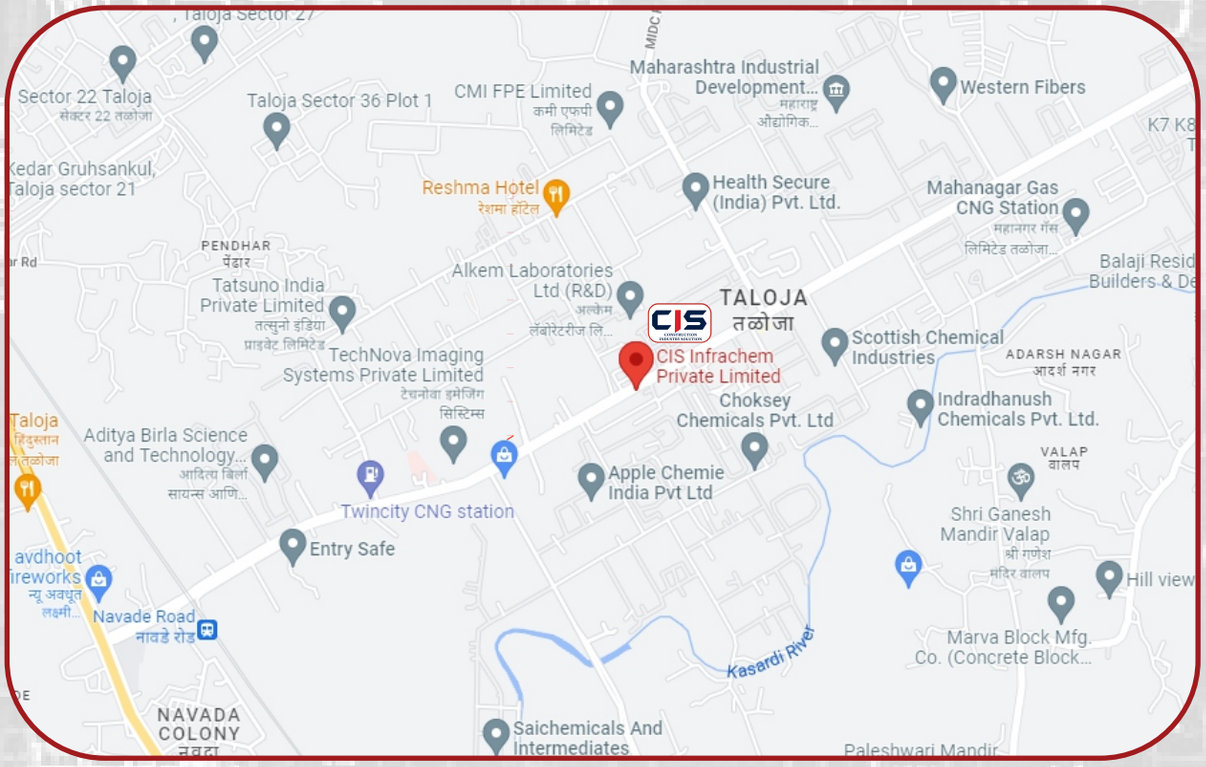
CIS SHUTTERING P 600

MOULD RELEASEING AGENT

PRODUCT CATEGORY: DEMOULIND AGENT

SPECIFICATION

Viscosity @ 40c	20.0-24.0
Colour	Light brown to brown colour
Flash point ~c , min	160C
Pour point ~c ,min	-3



CONSTRUCTION INDUSTRY SOLUTION

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