

CIS CHEM MPC 121

WATER REDUCING AND RETARDING ADMIXTURE

PRODUCT CATEGORY: POLYCARBOXYLIC ETHER BASED ADMIXTURE

PRODUCT DESCRIPTION

CIS MPC 121 is moderate 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 workability without segregation conforming to ASTM C-494 type G, C-1017 and IS 9103:2003.

USES

- High strength concrete
- High slump concrete
- Flowing concrete
- Self consolidating concrete and also for better specific requirements 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 – furnace slag, silica fume and so on
- CIS MPC -121 has higher water reducing ability, and the water reducing rate can be easily controlled by changing the dosage
- CIS MPC 121 provides good slump retaining ability
- CIS MPC 121 provides suitable viscosity for concrete and eliminate excessive bleeding and segregation
- CIS MPC 121 provides good slump retaining ability. CIS MPC 121 is an appropriate method to produce high durable concrete with high water reducing ability



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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.