



KEM SUPLAST PCL 110

**High range water reducing
superplasticising and slump retaining
admixture**

Ref. CA/SP-V1-0913

Description

KEM Suplast PCL 110 is a brown coloured liquid admixture based on modified Polycarboxylate ether.

KEM Suplast PCL 110 has been specially formulated to achieve high water reduction up to 20% & to give cohesive concrete mix even at low cement content.

Uses

- Excellent dispersion resulting in High workability
- Increases early & ultimate strengths
- Concrete to be placed and compacted in congested reinforcements
- Reduced labor requirements.
- Improve surface finish.

Advantages

- Higher Cohesion – Minimized bleeding & segregation
- Improve workability – easier, quicker placing & compaction.
- Improve quality - reduction in w/c ratio enables increase in density & impermeability thus enhancing durability of concrete.
- Chloride free – safe in pre- stressed concrete & sulphate resisting cement & marine aggregates.

Typical Properties

Colour : Brown coloured Liquid

Specific Gravity : 1.11 ±0.02

Chloride content : Nil

pH : min. 6

Shelf life : 1 year

Standards

ASTM C494 Types D & G

IS 9103: 1999

Application:

- Precast / Pre-stressed Concrete
- Lower cement content Concrete
- High Performance Concrete
- Pumped concrete

Dosage / Coverage:

- 0.4 to 1.0 kg / 100 kg of cement
- For dosage higher than recommendation please consult with Chembond technical service department.

Packing:

- 200 kg drum

Effects of Over Dosage

A severe over-dosage of KEM SUPLAST PCL 110 can result in the following:

- Extension of initial and final set
- Bleed/segregation of mix, quick loss of workability
- Increased plastic shrinkage



A slight overdosing may not adversely affect the ultimate strength of the concrete and can achieve higher strengths than normal concrete, provided it is properly compacted and cured.

Compatibility

KEM Suplast PCL 110 is compatible with OPC, PPC, Fly Ash,

Corrosivity & Non-Corrosivity

KEM SUPLAST PCL 110 admixture will neither initiate nor promote corrosion of reinforcing steel embedded in concrete, prestressed concrete or concrete placed on galvanized steel floor and roof systems. Neither calcium chloride nor any calcium chloride-based ingredients are used in the manufacture of KEM SUPLAST PCL 110 admixture.

In all concrete application, KEM SUPLAST PCL 110 admixture will conform to the most stringent or minimum chloride ion limits currently suggested by construction industry standards and practices.

Workability

KEM SUPLAST PCL 110 ensures that rheoplastic concrete remains workable up to 120 minutes at +25°C. Workability loss is dependent on temperature, and on the type of cement, the nature of aggregates, the method of transport and initial workability. It is strongly recommended that concrete should be properly cured particularly in hot, windy and dry climates.

Storage and Shelf life

KEM Suplast PCL 110 must be stored in a place where temperature does not drop +5°C. If product has frozen, thaw @ +3°C & agitate until completely reconstituted. Store under cover, out of direct sunlight & protect from extremes of temperature. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Shelf life up to 12 months if stored according to manufacturers instructions in original unopened Drums.

Technical Service

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped laboratory for research & quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

Safety precautions

KEM Suplast PCL 110 is non-toxic and non-flammable. However, any splashes on the human body, must be washed with plenty of water.

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