



CN-PLAST-PPR

Retarding Pumping Admixture & Concrete Plasticiser

DESCRIPTION

“CN-PLAST-PPR” is a concrete admixture based on long chain polymers combining the properties of concrete plasticiser, retarder and rheology improver complying with IS : 9103-1999, ASTM C 494.

USES

“CN-PLAST-PPR” improves the cohesion of high workability concrete mixes. It facilitates the production of consistent concrete without grout-drainage. When “CN-PLAST-PPR” is added to less fines concrete mix, it increases the adhesion of the cement grout to the aggregate particles. This results in considerably reduced segregation, especially where the mix is being placed by pneumatic pump.

ADVANTAGES

- * Reduced segregation and bleeding by increased cohesion.
- * Reduced grout drainage.
- * Moderate retardation can be pumped over longer distance at high ambient temperature with less blockages in pipelines.
- * Retention of workability for considerable period.
- * Easier to obtain required fluidity.
- * Improved tolerance of harsh sand grading.
- * Consistent strength.
- * Chloride free.

PROPERTIES

Specific Gravity	:	1.16 ± 0.02
Chloride Content	:	Nil
Air Entrainment	:	1 to 2% in excess of control mix
Compatibility with cement	:	Can be used with all type Portland Cement.

COMPATIBILITY WITH OTHER ADMIXTURES :

Generally compatible with other admixtures but our Technical Division may be consulted for specific use, if any.

PERFORMANCE

- Workability : The addition of ‘CN-PLAST-PPR’ to harsh, poorly graded mix, reduces segregation and bleeding by way of increased cohesion and enables them to be pumped more easily. Good Slump retention.
- Retardation : Retardation of setting times (Upto 1-1/2 hrs. at normal dosage) may be experienced.
- Compressive : The use of “CN-PLAST-PPR” permits reduction in water and hence it increased strength through strength lower water/cement ratio.
- Cement : Where additional cement has been added to a mix to improve pumpability, Reduction this can generally be replaced with no reduction in strength by “CN-PLAST-PPR” and a reduction in w/c ratio.
- Grout Drainage : “CN-PLAST-PPR” eliminates grout drainage of concrete mix during pumping.

- Surface Finish : Improved surface finish through uniform close textured surface.
- Durability : The plasticising, slight air-entraining and increased cohesion, properties of “CN-PLAST-PPR” will reduce the permeability of concrete and will, therefore, help to Improve durability and resistance to penetration of aggressive materials.

DOSAGE

The optimum dosage is best determined by site trials with actual concrete mix. As a guide, the rate of additions generally in the range of 250 ml to 500 ml per 50 kg cement.

Higher dosage may have to be used for concreting at high ambient temperature or for very harsh and very rich mixes (450 kg cement/m³)

- CONSISTENCY** : “CN-PLAST-PPR” is formulated from carefully selected raw materials and is manufactured under control conditions to give a consistent product.
- HANDLING** : “CN-PLAST-PPR” is formulated from chemicals which present no fire or health hazards.
- METHOD OF USE** : “CN-PLAST-PPR” is supplied ready for use. For maximum dispersion throughout the mix, measured quantity of “CN-PLAST-PPR” should be added directly into the mixed at the same time as the mixing water. On no account should it be added to the dry cement.
- PACKING** : “CN-PLAST-PPR” is available in 25/100/200 ltrs. metal/plastic containers.
- STORAGE/SHELF** : If stored in unopened containers, under shade and at normal ambient temperature, a shelf-life of
- LIFE** : approximately 12 months could be expected.
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TECHNICAL SERVICE :

SWC group maintains a technical division with highly qualified technical personnel to investigate and advise on subjects related to Concrete and the Construction Industry. The Division can advise on the correct use and selection of right products at the right place.

SWC undertakes Consultancy Service for diagnosis and rehabilitation of distressed structures. SWC undertakes Contracts on turnkey basis for total Waterproofing System with guarantee

NOTE : This Technical data sheet is to be used as guidance only. Although the basic formulation of the product remains unchanged, production refinements arising from continuing research and evaluation programmes may occasionally result in marginal change in properties. The recommendation and properties of the product based on continuous monitoring of the product are not intended to infringe on other patents.

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