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CONCRETE ADMIXTURE



PROCRETE NPL S15

PC based water reducer admixture

Description

PROCRETE NPL S15 is PC based water reducer admixture and supplied as a brown liquid instantly dispersible in water. This generally improves cement dispersion. At the start of the mixing process an electrostatic dispersion occurs due to which cement particle's capacity to separate and disperse increases. This mechanism considerably reduces the water demand in flow able concrete.

Advantages

- Easier, quicker placing and compaction
- Provides high early strength concrete and with reduced water contents precast concrete
- High Durability due Denser, close textured concrete with reduced porosity
- Risk of segregation and bleeding minimized; thus aids pumping of concrete
- Safe in pre stressed concrete and with sulphate resisting cements and marine aggregates

Uses

- To produce lower and medium grade concrete
- To produce pump able concrete
- To produce high strength, high grade concrete by substantial reduction in water resulting in low permeability and high early strength.
- To produce high workability concrete requiring little or no vibration during placing.

Confirm standard

- IS 9103:1999

Compliance standard

- BS: 5075:1985 part-3
- ASTM C494 Type 'G'

Technical Information

PROPERTIES	RESULTS
Appearance	Brown colored Liquid
Chemical Base	Polycarboxylate ether
Sp. Gravity	1.05 to 1.07 @25°C
pH Value	7 to 8
Chloride Content	Nil

Method of Application

- Trials need to be carried out at site to determine the exact dosage of the admixture for the particular mix design and materials. However for normal grades of concrete a dosage from 0.4% - 1.0 % by weight of cement is recommended, the dosage may be increased to 1.5% to achieve specific slump requirements. For microsilica concrete where a high amount of water reduction and slump retention are required, trials need to be carried out to arrive at the correct dosage, as the dosage may increase up to 2.0% or even up to 2.5% by weight of cement depending on mix design and performance required.

This in turn leads to a series of associated benefits

- **Cohesion:** Cohesion is improved due to dispersion of cement particles thus minimizing segregation and improving surface finish.
- **Compressive strength:** Makes possible major reductions in water: cement ratio which allow the production of high strength concrete without excessive cement contents.
- **Durability:** Reduction in W/C ratio enables increase density and impermeability thus enhancing durability of concrete.

Packaging

- PROCRETE NPL S15 is supplied 220 kg drums.

Storage

- Minimum of 12 months shelf-life if kept under room temperature (i.e. 27°C).

For selection of admixture

- As per your project please visit our smart store in www.redwop.net

Note: All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary according to trails and quality of material availability.

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