

DONCRETE-LPC

PC BASED WATER REDUCES CUM CONCRETE PLASTICIZER

Product Details

Conforming BS : 5075, IS: 9013: 1999

DESCRIPTION:-

It is a highly efficient plasticizer/water-reducing Low PC based admixture for M-15, M-20 & M-25 grade of concrete conforming to BS: 5075 Part-1:1985. IS: 9013:1999. ASTM –C-494 types A. It is a brown liquid based on a naphthalene organic-polymer. It does not contain calcium chloride or any other chemicals which could be harmful to the durability of reinforcement concrete.

It enables easier placing, compaction and finishing of concrete and may be used to reduce the water content whilst retaining the same workability resulting in higher strength. It may also be used to reduce the overall cement for specified strength and durability.

ADVANTAGES:

- Increase strength, high early and ultimate strength, without increase in cement content.
- Improves cohesion and thus aids pumping of concrete.
- Facilitates rapid placing of concrete and with little or no vibration.
- Makes the concrete denser, hence durability increased.
- Used for mass concrete.

STORAGE:

Protect from frost and store under dry warehouse conditions at a temperature between 10°C 30°C.

SHELF LIFE:

18 months unopened containers and stored under good conditions.

CONSUMPTION/DOSAGE RATE:

It is supplied ready for use and should be added direct to the mix preferably with the gauging water. The concrete should be mixed for sufficient time to ensure thorough dispersion. The dosage rate is 0.7 to 1.30 Kg. by weight to cement. **The optimum dosage should be determined by trials with the proposed mix.**

APPLICATION: It can be incorporated in concrete to give one of three following benefits (or a comb. Of these benefits).

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1- As a water reducer: By keeping the workability of the concrete mix the same, significant reduction (20%) in the quantity of gauging water added can be achieved by the incorporation of **DONCRETE-LPC** giving higher strength, more durable concrete.

3- Reduction of Cement content: By the incorporation of **DONCRETE-LPC**, it is possible to produce lower cost 'corresponding mixes' (of comparable workability and 28 days strengths) as lower cement contents (20% reduction for nominal 300kg/m³ mix). Such corresponding mixes with **DONCRETE-LPC** exhibit improved durability under freeze/thaw cycling when compared with control mixes. These benefits can be used to the full in both mass and reinforced concrete in pre-cast & ready mixed concrete, and in difficult placing conditions such as floor lying, where it is important to obtain maximum workability with minimum water/cement ratio. This avoids shrinkage and surface laitance, reduces permeability and improves durability, **DONCRETE-LPC** can also.

Pack size: 1, 10, 25, 50, 100, 200 Kg. containers.



TECHNICAL COLLABORATION WITH



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