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INNOVATING FOR A BETTER WORLD

CONCRETE ADMIXTURE



PLASTCONE HS 200

Superplasticising Admixture

Description

PLASTCONE HS200 is based on Sulphonated Naphthalene Polymers and supplied as a brown liquid instantly dispersible in water. PLASTCONE HS200 has been specially formulated to give high water reductions without loss of workability or to produce high quality concrete. It is ideal for usage in production of pavement quality concrete.

Advantages

- Allow the production of high strength concrete without excessive cement contents
- Use in production of flowing concrete permits easier construction with quicker placing and compaction and reduced labor costs without increasing water content
- Chloride free, safe for use in prestress and reinforced concrete with increased strength
- Improved quality and improved cohesion properties
- Improved surface finish
- Improved cohesion and particle dispersion minimizes segregation and bleeding and improves pumpability

Uses

- Particularly suitable for precast concrete and other high early strength requirements
- To provide improved durability by increasing ultimate strengths and reducing concrete permeability
- Airport Runways, Highways or Roads
- In screeds it reduces the water content required to give suitable workability for placing and compaction

Confirm Standard

- IS 9103:1999

Compliance Standard

- BS: 5075:1985 part-3, ASTM C 494M Type 'A' & Type 'F' (As a high range water reducing admixture)

Technical Information

PROPERTIES	RESULTS
Apperance	Brown Color Liquid
Chemical Base	Modified Naphthalene Formaldehyde Sulphonate
Sp. Gravity	1.05 to 1.15
Relative Density	1.16 kg/liter @25°C
pH Value	7 to 8
Chloride content	Nil
Air Entrainment	Approx 1% air is entrained

Method of Application

- The optimum dosage is best determined by site trials with the concrete mix which enables the effects of workability, strength gain or cement reduction to be measured. Site trials with PLASTCONE HS200 should always be compared with mix containing no admixture. As a guide, a dosage range of 0.6 to 1.4% weight of cement is normally recommended.

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 in density and impermeability thus enhancing durability of concrete.
- **Compatibility:** It is compatible with other types of admixtures when added separately to the mix. Site trials should be carried out to optimize dosages. It is suitable for use with all types of ordinary Portland cements and cement replacement materials such as PFA, GGBFS and silica fume.

Dispensing

- The addition of PLASTCONE HS200 to dry aggregate or cement is not recommended. To achieve optimum performance a minimum wet mixing time, which depends on the mixing conditions and the mixer performance of 1 minute is recommended.

Overdosing

- An over dose of double the recommended amount of PLASTCONE HS200 will result in very high workability and may cause extension of initial and final setting times. However, the ultimate compressive strength will not be impaired.

Packaging

- PLASTCONE HS 200 is supplied in 240 kg drum.

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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