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INNOVATING FOR A BETTER WORLD

CONCRETE ADMIXTURE



PLASTCONE R

Retarding Admixture

Description

PLASTCONE R is a chloride free concrete retarder which can delay the setting time of concrete. The initial hydration of the cement is also delayed, resulting in a delay in the setting time of the concrete with no adverse effect on subsequent stiffening and strength gain.

Advantages

- Controlled retardation extends working life and stiffening time for ease of construction
- Water reduction significantly improves compressive strengths at all ages and enhances durability through the production of low permeability concrete
- Control of stiffening improves slip forming and assists in preventing the formation of cold joints in large pours
- Allows specified strength grades to be met at reduced cement content or increased workability

Uses

- To extend the setting time of concrete, extending working times
- To improve the effectiveness of the water content of a concrete mix
- In all types of low and high rise building
- Particularly suitable for use in mixes having fly ash and also improve the working life of semi dry concrete mixes, specifically RCC type of mixes

Confirm standard

- IS 9103:1999

Compliance standard

- ASTM C494, AASHTO M 194, Type B

Method of Application

- The optimum dosage is best determined by site trials with the concrete mix. Site trials with PLASTCONE R should always be compared with mix containing no admixture. As a guide, a dosage range of 0.6 to 1.5% of cement is normally recommended.

Technical Information

PROPERTIES	RESULTS
Appearance	Brown Liquid
Sp. Gravity	1.05 to 1.07 @25°C
Air entrainment	Typically slightly less air will be entrained than in normal concrete mix
Chloride Content	Nil
Alkali Content	Typically less than 5 g Na ₂ O equivalent per litre of admixture

This in turn leads to a series of associated benefits

- **Enhanced durability:** PLASTCONE R reduces the permeability and increases the resistance to weathering and enhances the durability.
- **Corrosivity:** Chloride free PLASTCONE R admixture will neither initiate nor promote corrosion of reinforced steel in concrete.
- **Strength:** Reduced water cement ratio will increase strength of concrete at all stages.

Over dosing

- An overdose of double the intended amount of PLASTCONE R will result in a significant increase in retardation as compared to that normally obtained at the intended dosage.

Curing

- Normal good curing practice should be adopted.

Packaging

- PLASTCONE R is available in 50 & 250 kg containers.

Storage

- Minimum of 12 months shelf-life if kept under room temperature (i.e. 5°C to 45°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 trials and quality of material availability.

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