



SUPAPLAST HS (T)

Superplasticiser for High Strength Concrete with Microsilica

DESCRIPTION

“SUPAPLAST HS (T)” is a specially formulated Superplasticiser based on water soluble Sulphonated Polymers for use with conventional concrete and particularly concrete containing Microsilica to produce exceptionally high strength, rheoplastic concrete with low water/cement ratio.

“SUPAPLAST HS (T)” which has a given molecular weight has a specific and optimum action over various mineralogical components of portland cement and microsilica. “SUPAPLAST HS (T)” conform to **ASTM-C-494 Type –G and IS-9103-1999**.

USES

- ◆ Production of dense Microsilica Concrete
- ◆ Production of Impermeable and high Strength Concrete.
- ◆ Suitable for Hot weather Concreting.
- ◆ To produce Self-Compacting, Flowing Concrete.
- ◆ For use with Low Water to Cement Ratio Concrete.

ADVANTAGES

Adding “SUPAPLAST HS (T)” coats the molecules of the Polymer with negative charges, which is absorbed onto the surface of cementitious grains. This causes a grain to grain repulsion in cementitious particles, resulting in quick and complete dispersion in water. Consequently, the mix becomes more fluid and possesses the ability to retain workability for extended period even in high temperatures.

DOSAGES

The Optimum dosage of “SUPAPLAST HS (T)” should be determined by site trials using the relevant mix constituents and mix design. Controlled mixes should always be produced to establish the performance and the full benefit of using “SUPAPLAST HS (T)”.

GUIDELINES

The incorporation of Microsilica in concrete makes the mix sticky and cohesive. In order to transport, pump and place Microsilica concrete the rate of addition of “SUPAPLAST HS (T)” varies from 0.6 Kg to 3.0 Kg per 100 Kg of cement. The dosage rate will vary according to Cement content and water/cement ratio.

METHOD OF USES

“SUPAPLAST HS (T)” is supplied ready for use. For maximum dispersion throughout the mix, measured quantity of “SUPAPLAST HS (T)” should be directly added into the mixer at the same time along with the gauging water. On no account should it be added to the dry cement. To achieve the best results, the mixer along with material should be rotated for at least 2-3 minutes.

PROPERTIES

TECHNICAL DATA

Form	:	Liquid
Colour	:	Brown
Sp. Gravity	:	1.25 ± 0.01
Air Entrainment	:	Practically no increase.
Chloride content	:	Nil - as per B. S. – 5075 (Part –I)
Setting & Hardening	:	There may be mild retarding effect on the setting time for high cement content mixes.
Compatibility	:	Can be used with all types of Portland and Slag Cement, Pozzolana Cement including Sulphate Resisting Cement and Microsilica.
Consistency	:	“SUPAPLAST HS (T)” is formulated from carefully selected raw materials and is manufactured under a strict quality controlled procedure to give a consistent and uniform product.
Handling	:	“SUPAPLAST HS (T)” is formulated from chemicals which present no fire or health hazards.
Toxicity	:	Non-Toxic
Shelf Life	:	If stored in unopened containers at normal ambient temperatures, a shelf-life of approximately 12 months could be expected.
Packing	:	“SUPAPLAST HS (T)” is available in 125/250 Kg. (Nett) Drums. Bulk deliveries can be arranged on request.

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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