Technical Data Sheet

SN PLAST 600

SNF BASED SUPER-PLASTICIZER FOR CONCRETE AND MORTAR

Description

SNPLAST 600 is Sulphonated Napthalene Polymers based super-plasticizer and supplied as a brown liquid, instantly dispersible in water.
It allows considerable reduction of mixing water while maintaining control on extend of set retardation thus improve the compressive strength of concrete and mortar without increasing the cement content.
It makes concrete more impermeable and durable.
SNPLAST 600 is chloride free.

Uses

- Ready mixed concrete
- Long-distance transporting
- Pumped concrete
- Concrete containing Slag/ Pozzolans
- Mass concrete pours
- Hot weather concreting

Advantages

- Reduced thermal peaks
- High workability for longer periods
- Lower pumping pressure
- Resistance to segregation even at high workability
- Extended setting with longer workability
- Reduced water content for a given workability
- Higher ultimate strengths
- Reduced permeability and improved durability
- Increased ease in finishing concrete
- Provides lower in-place cost

Reaction Mechanism

SNPLAST 600 is a Sulphonated Napthalene Polymers based super-plasticizer with high molecular weight, which greatly stabilizes the cement particles' ability to separate and disperse by electrostatic dispersion mechanism. It considerably reduces the water demand in flowable concrete and improves the workability retention.

Characteristics

Form : Liquid

Color : Dark Brownish

Relative Density: 1.18 ± 0.03 at 25^0C

pH: Min. 6

Chloride ion content: Nil (As per BS 5075 Part I)

Standard Compliance

SNPLAST 600 complies with BS:5075 and ASTM-C-494 Type 'A & G'

Dosage

Optimum dosage of SNPLAST 600 should be determined by site trials only using the materials and conditions that will be experienced in use.
However, as a guide, a dosage range of 0.4 to 2% on cementitious material is recommended.
Dosages outside of the recommended range may be required. In such cases, contact our local representative.

Effect of under dosing & overdosing

Under dosages may cause lack of workability and over dosage may cause bleeding & segregation and extension of setting time.

Direction of use

SNPLAST 600 is a ready-to-use liquid admixture. For maximum dispersion throughout the mix, measured quantity of SNPLAST 600 should be added into the mixer at the same time as the mixing water. The plasticizing effect and water reduction will be higher when the admixture will be added to the damp concrete by adding 60 to 80% of the mixing water in it. The addition of SNPLAST 600 to dry aggregate or cement is not recommended. To impart higher workability to concrete at site using ready mix trucks, it can be added to the concrete via the feed hopper at the rear of the truck. Mix before discharge for 5 minutes at 10 rpm to produce a fully homogenous mix.

Compatibility

SNPLAST 600 can be used with all types of cements except high alumina cement. It is compatible with Sulphonated Napthalene Polymers and ligno-ulphonates based plasticizer and retarders and also with most type of air entrainers, accelerators, viscosity modifying agent, extended set-control admixtures, corrosion inhibitors, and shrinkage reducers. Site trials should be carried out to optimize dosages.

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Durability

Reduction in W/C ratio enables increase in density and impermeability thus enhancing durability of concrete.

Corrosion

It neither initiates nor promotes corrosion as it does not content any harmful chemicals. Rather it reduces the risk of corrosion of reinforcement or other embedment, as it has water reduction power to produce a dense impermeable concrete.

Technical Support

FIRSTCHOICE SPECIALITY CHEMICALS PVT LTD provides technical advisory services for on-site assistance and guidance on mix design, optimum dosage evaluation of trials.

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Packaging

SNPLAST 600 is supplied in 20 kg, 250 kg drums or in bulk on request.

Storage & Shelf life

SNPLAST 600 must be stored where temperatures do not drop below +5°C. If product has frozen, thaw at +5°C or above and completely reconstitute using mild mechanical agitation. Do not use pressurized air for agitation. Store under cover, out of direct sunlight and protect from extremes of temperature.
Shelf life is 12 months when stored as above.
Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult our local FIRSTCHOICE SPECIALITY CHEMICALS PVT LTD representative.

Fire

SNPLAST 600 is water based and non-flammable.

Cleaning Tools

Clean all tools and application equipment with water immediately.

Safety Precaution

SNPLAST 600 does not fall into the hazard classifications. However, it should not be swallowed or allowed to come into contact with the skin and eyes.
Suitable protective gloves and goggles should be worn. Splashes on the skin should be removed with water. In case of contact with the eyes it shall be rinsed immediately with plenty of water and medical advice sought immediately. If swallowed, medical attention shall be sought immediately - Vomiting should not be induced.

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Note:
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