Mapula
CHEMICALS PVT LTD
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MAP SUPERFLOW 001

Water Reducing Super Plasticizer SNF Base Admixture

Description:
MAP SUPERFLOW 001 is a water reducing superplasticizer based on reformed Sulfonated Polynaphthalene. It's a herculean dispersant of the fine active particles in concrete which results in workable concrete with a reduced W/C ratio. The use of MAP SUPERFLOW 001 is particularly recommended for Jobsite concrete requiring workable to highly workable homogenous concrete with fairly good workability retention over a period.

Technical Properties:
- Form : Brown liquid
- Specific Gravity: 1.25 ± 0.02
- Air entrainment: ≤ 1.5 % over control mix.
- pH: ≥ 6
- Chloride Content: Nil, as per BS - 5075 (Part-I)
- Compatibility: OPC, Fly Ash, PSC, PPC, SRC

Advantages:
MAP SUPERFLOW 001 produces cohesive concrete for jobsite application primarily and is particularly useful for high volume crushed sand mixes. It promotes excellent dispersion of the particles in cement resulting easier placing of concrete. At constant plasticity, it produces a substantial reduction of quantity of mixing water (up to 25%), an increase of the compacity of concrete, higher mechanical strengths at all ages. At constant W/C ratio, it helps to obtain fluid concrete. MAP SUPERFLOW 001 is well compatible with most of the major cement brands available in India. For the same concrete mix, keeping everything else constant, a definite economy in cement content, ranging from 15% to 20%, can be achieved.

Packaging:
- 250 Kgs Barrel
- Bulk in 10KL/ 15KL/ 20KL tanker

Shelf Life:
When stored in unopened container in the normal average country temperatures, a shelf life of the material is approximately 12 months

Domains of Application:
- All cement types
- Pumped Concrete for Jobsites
- Highly Reinforced Concrete
- Specifically for PQC/Road Job
- High Performance Fluid Concrete

Methodology:
Dosage: To establish the optimum dosage of the chemical in the concrete mix the trials need to be conducted in the observation of the final client. The final client will approve the appropriate dosage based on the performance and/or the conditional requirements at the site. Generally the dosage ranges between 0.7-2.0% by weight of cementitious material.
Method of use: The chemical should be added to the mixing water only. While adding the chemical into the concrete mix, the mix should be fresh in the vessel mixing at a high speed for 3-4 minutes, and then then at low speed for 3 minutes.

Guideline Followed:
IS: 9103-2007 and ASTM C-494-2010(Type-G)

Precautions:
Should be stored in controlled temperature. Exposure to the direct sunlight and/or high temperature for prolonged period should be avoided. Should be protected from the frost

Safety:
- It is non-toxic and formulated from the chemical raw materials possessing non-volatile and non-hazardous characteristics
- It is recommended to follow the safety majors instructed by the safety experts of the industry
- Wearing Goggles, rubber gloves and long sleeves is always advisable while handling or applying the product
- Read warning notes on the product packaging carefully, and refer to product material safety datasheet prior to use

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