



Technical Data Sheet

SUPAFLO SUPERPLASTICISER

ADVANTAGES:

- Increased strength – High early and ultimate strength, if water reduction is taken advantage of.
- Use in precast concrete work.
- Safe in prestressed concrete.
- Improves cohesion thus aids pumping of concrete.
- Facilitates rapid placing of concrete and with little or no vibration.
- Makes the concrete denser, hence durability increased.
- Safe with mortar grouts.
- High water reductions upto 30%

PRODUCT:

Supaflo is a high range water reducing admixture for concrete and grouts conforming to IS9103-1999-ASTM-C-494 type F.

COMPOSITION:

Supaflo is non toxic brown liquid based on sulphonated naphthalene polymer.

PURPOSE:

To produce high strength concrete and flowing concrete without addition of water. Enables high water reduction upto 30% leading to high early and ultimate strengths. Ideal in precast concrete works.

DOSAGE:

0.30 – 0.6 ltrs / 50 kg cement. However, the optimum dosage should be determined by site trials.

PACK:

5, 10, 20, 50, 100, 200 litres carbuoys and drums.

A SUBSIDIARY OF DON CONSTRUCTION PRODUCTS LTD., U.K.



No.4, II Block, Chowdhary Complex, Nandanam Extension, 5th Street, Nandanam, Chennai – 600035

Tel: 24331817, 24335345, 52110993 Fax: 24338272 E-mail: dccil@vsnl.com Website: www.don-india.com

DESCRIPTION

SUPAFLO is supplied as brown liquid based on sulphonated Napthalene formaldehyde condensates. The powerful dispersing action of Superplasticisers can be used in many ways to obtain dense, high strength durable concrete (M350, M400 and M450).

The high water reduction upto 30% make Supaflo ideal for use in precast concrete where high early strength are of paramount importance.

Supaflo is chloride free.

Increased Workability:

Supaflo when incorporated in concrete mixes increased the workability without addition of water; thus leading to easy placement and finishing without the risk of segregation and bleeding.

Increased Strength:

Supaflo can be used to reduce upto 30% water for a given workability leading to increase in high early and, ultimate strengths. Such high early strengths and early stripping of form work lead to increased productivity on precast concrete and the production of high strength concrete without increasing cement content.

Properties:

Supaflo can be used with all types of Portland cements and is chloride free. It has no significant effect on setting times at normal dosage levels. It can be used in mortar grouting of prestressed wires.

Dosage:

The normal dosage is 0.30 – 0.6 ltrs per 50 kg cement. However, higher dosages can be used upto 0.8 litres with suitable changes in the mix especially sand to avoid segregation if no water reduction is made.

Storage Life:

Minimum one year if stored below 50°C in original sealed containers. If allowed to stand for a long time, contents should be stirred before use.

Overdosing:

Overdosing upto double the normal dosage levels may lead to retardation of setting times and may tend to segregate and produce ultra fluid concrete.

Typical Properties:

Physical State : Brown liquid.

Specific gravity : 1.20+.015 @ 27°C

Chloride content: Nil as per IS 456 and BS 5075

Air entrainment : Less than 1%
additional air entrained.

Handling Precautions:

Supaflo is non toxic. However, splashes on the skin should be washed well with water and if contact with eye occurs, wash well with water and seek medical advice.

How to Specify:

Supaflo concrete superplasticiser shall be used in accordance with the instructions of Don Construction Chemicals India Ltd. and dosages as determined at site.

Our Range Includes:

Flocrete - Plasticising, retarding, super plasticising and accelerating admixtures.

Flogrout - Non-shrink, free flow, cementitious grouts.

Quickmast - Epoxy coatings, mortars, grouts, sealants and self levelling floorings.

Tibmix - Industrial, abrasion and high wear - resistant, non-metallic flooring system.

Repecoat - Anticarbonation, protective & decorative exterior coating.

Setseal - Waterproofing systems

The information given in this data sheet is based on both current development work and many years of field experience. Whilst every effort is made to ensure that the information is reliable, we cannot accept responsibility for any work carried out with our materials as we have no control over methods of application, site conditions, etc.

In view of the continuing research and development being undertaken in our laboratories, we advise customers in their own interest to ensure that this data sheet has not been superseded by a more up-to-date publication. All products are sold subject to our standard conditions of sale which are available on request.

Field services, where provided, does not constitute supervisory responsibility. For additional information, please contact your local DON representative.