



Technical Data Sheet

SUPAFLO M

Super Plasticiser

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 and 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 20%.

PRODUCT:

Supaflo M is a high range water reducing admixture for concrete and grouts conforming to BS 5075 : Part 3 and ASTM C-494 type 'F'.

COMPOSITION:

Supaflo M is a non-toxic brown liquid based on sulphonated naphthalene formaldehyde condensates.

PURPOSE:

To Produce high strength concrete and flowing concrete without addition of water. Enables high water reduction upto 20% leading to high early and ultimate strengths. Ideal in precast concrete works.

DOSAGE:

0.30 – 0.6 L per 50 kg cement. However, the optimum should be determined by site trials.

PACK:

5,20,50,200 Litre containers.

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

The high water reduction upto 20% make Supaflo M ideal for use in precise concrete where high early strengths are of paramount importance. Supaflo M is chloride free.

INCREASED WORKABILITY:

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

INCREASED STRENGTH:

Supaflo M can be used to reduce upto 20% 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 higher strength concrete without increasing cement content.

TYPICAL PROPERTIES:

Physical state : Brown liquid
 Specific gravity : 1.103 +/- 0.015 at 27 C
 Chloride content : Nil
 Air entrainment : Less than 1% additional air entrained.

Test Results:

Mix Proportions – 1:2:4

Dosage – 0.5L/50 kg cement

	Control	+Supaflo M	+Supaflo M
Water/cement Ratio	0.55	0.55	0.44
Slump (mm)	55	220	55
Compressive Strength(N/mm ²)			
-at 7 days	35	35	48
-at 28 days	38	38	52

USES:

Supaflo M 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.

INSTRUCTIONS FOR USE:

The normal dosage is 0.30 – 0.60 litres 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.

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.

STORAGE LIFE:

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

HANDLING PRECAUTIONS:

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

HOW TO SPECIFY:

Supaflo M concrete super plasticiser shall be used in accordance with the instruction of Don Construction Chemicals India Ltd. and dosages as determined at site.

OUR RANGE INCLUDES:

Flocrete - Plasticising, retarding, super plasticising and accelerating admixtures.
 Setcrete - Integral water proofings and coatings.
 Flogrout - Non-shrink free flow cementitious and epoxy grouts.
 Quickmast - Epoxy coating, mortars, self leveling floor
 Tibmix - Industrial, abrasion and high wear-resistant flooring systems.
 Repcoat - Anticarbonation protective & decorative exterior coating.
 Setseal - Water proofing 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.