



DS-Megaflow SR 51

Slump / Flow Retaining Superplasticiser based on Poly-carboxylic Ether

DS-Megaflow SR 51 is a superplasticising admixture (Super Slump / Flow Retaining) use along with **DS-Megaflow WR 200 / 700** to produce high performance concrete where the highest durability and performance is required.

AREA OF APPLICATION:

- 3 hours retention with no Initial bleeding and no segregation
- Precast / Pre-stressed Concrete
- High Strength Concrete
- High Performance Concrete
- Self Compacting Concrete
- Pumped concrete

Primary uses to obtain-

- Excellent slump / Flow retention without initial bleeding and segregation
- Increases early & ultimate strengths
- Can be placed and compacted in congested reinforcements
- Increases durability & impermeability
- Improved surface finish
- Ideal for use in Self-compacting Concrete along with **DS-VMA**, Viscosity Modifying Admixture

STANDARDS:

ASTM C 494 – Type G
IS 9103: 1999

METHOD OF APPLICATION:

Add 80-90% water to the concrete based on Mix Design by weight. The correct quantity of combination of **DS-Megaflow WR 200 / 700** along with **DS-Megaflow SR 51** should be measured with recommended dispenser and should be added to the concrete with remaining

mixing water. Allow to mix it for recommended mixing time. The addition of **DS-Megaflow SR 51** to dry mixes or cement is not recommended.

Thorough mixing is essential and after addition of **DS-Megaflow SR 51**, minimum mixing cycle of 60 seconds for forced action mixers is recommended.

DOSAGE:

As a starting point, a dosage range of 0.3kg to 0.7kg per 100kg of cement is recommended. Optimum dosage of **DS-Megaflow SR 51** should be determined in trial mixes. Please consult DS Conchem Pvt. Ltd. Technical staff for further information.

COMPATIBILITY:

DS-Megaflow SR 51 is compatible with all types of cements and **DS-Retainplast** series of products. If more than one admixture is to be used in concrete, they must be dispensed separately with prior approval received from DS Conchem Pvt. Ltd. Technical Services.

DS-Megaflow SR 51 is suitable for mixes containing:

- Micro-silica
- Pulverized Fly Ash
- Ground Granulated Blast Furnace Slag

WORKABILITY:

DS-Megaflow SR 51 ensures that concrete remains workable more than 180 minutes at 25°C. Workability loss is dependent on temperature, type of cement, nature of aggregates, the method of transport and initial workability.



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It is strongly recommended that concrete should be properly cured particularly in hot and dry climates.

TECHNICAL PROPERTIES:

Appearance	Colourless flowing liquid
Base material	modified Poly-carboxylic Ether
Specific Gravity @25°C	1.110 ± 0.010
Chloride content	Maximum 0.2%
pH	Minimum 5
Solid content (%)	50 ± 1

The shelf life of the product is 1 year when stored as recommended.

PACKAGING:

DS-Megaflow SR 51 is available in 230 kg drum and in tanker (10 / 16 MT) on demand.

STORAGE:

DS-Megaflow SR 51 must be stored at above 5°C temperature. Failure to comply with recommended storage condition may result in premature deterioration of the product or packaging.

EFFECTS OF OVER-DOSAGE:

A severe over-dosage of **DS-Megaflow SR 51** will result in the following:

- Retardation of Setting Time
- Increase in workability
- Slight increase in air entrainment

SAFETY PRECAUTIONS:

DS-Megaflow SR 51 is a non-toxic and inflammable. When in contact with the skin, it should be washed with cold water.

Disclaimer:

The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests and take trials to ensure on suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of the other materials used and on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The Company does not assume any liability or any consequential damage for unsatisfactory results, arising from the use of our products.