

COSTARMIX 200MS

High Performance Super Plasticising Admixture

Description

Costarmix 200MS is a specially formulated chloride free, superplasticising SNF based polymer. It is a high range water reducer specially formulated to improve workability, durability and also reduce permeability. It is supplied as a brown solution which instantly disperses in water thereby enabling the water content perform effectively.

Benefits

- Major increases in strength at early ages without increased cement contents are of particular benefit in precast concrete, allowing earlier stripping times.
- Makes possible major reductions in water:cement ratio which allow the production of high strength concrete without excessive cement contents.
- Use in production of flowing concrete permits easier construction with quicker placing and compaction and reduced labour costs without increasing water content.
- Increased workability levels are maintained for longer than with ordinary sulphonated melamine admixtures.
- Improved cohesion and particle dispersion minimizes segregation and bleeding and improves pumpability.
- Chloride free, safe for use in prestressed and reinforced concrete.
- In screed material, the lower water content leads to quicker drying times

Application Areas

- To provide excellent acceleration of early strength and major increases in strength at all ages by significantly reducing water-cement ratio in a concrete mix.
- Particularly suitable for precast concrete and other high early strength requirements.
- To significantly improve the workability of on-site and precast concrete without increasing water-cement ratio.
- To provide improved durability by increasing ultimate strengths and reducing concrete permeability.
- In screeds it reduces the water content required to give suitable workability for placing and compaction.

Technical Information

Appearance	Brown Low Viscous Liquid
Chloride Content	Nil
Ph Value	7-9
Specific gravity	1.2 at 20°C
Air Entrainment	<2%
Water Reduction	20-30%
Setting Time	9-12 hours

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Dosage

The optimum dosage of Costarmix 200MS to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use.

For high strength, water reduced concrete the normal dosage range is from 0.70 to 2.00 litres/100 kg of cementitious material, including PFA, GGBFS and microsilica. For high workability concrete the normal dosage range is from 0.70 to 1.30 litres/100 kg of cementitious material.

Where a combination of performance is required, such as some increase in workability combined with a reduced water content, then the whole range of dosages from 0.70 to 2.00 litres/100 kg of cementitious material can be considered

Effect of Overdose:

An overdose of above the recommended level of admixture may result in high workability, slight increase in air entrainment and retardation of setting time. The ultimate Strength of the concrete will not be adversely affected and will generally be higher than for normal concrete if properly placed and cured.

Dispensing:

The measured quantity of Costarmix 200MS should be added along with the gauging water. For best results, add Costarmix 200MS in the last phase after pre-wetting the mix with 80% of the required water.

Spillage and Cleaning:

- Spillages of product should be absorbed onto sand, earth or vermiculite and transferred to suitable containers.
- Remnants should be hosed down with large quantity.

Fire:

It is water based and non-flammable.

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Packaging

■ 1000L tank, 210L drum and 25L gallon

Shelf Life

■ 1 year

Standards compliance

Costarmix 200MS complies with BS 5075 Part 3 and with ASTM C494 as Type A and Type F.

Standards compliance

Safety Precautions:

Avoid Contact with eyes and skin

If skin contact occurs, wash skin thoroughly

Wear Protective gloves and eye protection during work

If In eyes, hold eyes open, flood with warm water and seek medical attention immediately.

Warranty

The information and recommendations relating to the application of Costar products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costar endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costar reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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