

COSTARMIX 200MS

High Performance Super Plasticizing Admixture



PRODUCT DESCRIPTION

Costarmix 200MS is an exclusively formulated chloride-free, super plasticizing SNF-based polymer. This high-range water reducer is tailor-made to improve workability, durability, and decrease permeability in concrete. It is supplied in the form of a brown solution that readily disperses in water, guaranteeing effective utilization of water content for optimal performance.

ADVANTAGES

- Significant early-age strength improvements can be achieved without the need for higher cement contents, which is particularly advantageous in precast concrete, enabling earlier stripping times.
- It allows substantial reductions in the water-to-cement ratio, facilitating the production of high-strength concrete without excessive cement usage.
- When used in the production of flowing concrete, it enables easier construction with faster placing and compaction, resulting in reduced labor costs without increasing the water content.
- The increased workability levels are sustained for longer compared to standard sulphurated melamine admixtures.
- Improved cohesion and particle dispersion effectively minimize segregation and bleeding while enhancing pumpability.
- Being chloride-free, it is safe to use in prestressed and reinforced concrete.
- In screed material, the lower water content leads to quicker drying times, speeding up the overall process.

APPLICATION AREA

- 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.

OVERDOSING

A dosage 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. Particularly suitable for precast concrete and other high early strength requirements.

DISPENSING

The measured quantity of Cotarmix 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 total water required.

SPILLAGES

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



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TECHNICAL PROPERTIES

Packaging	20L, 210L, 1000L
Appearance	Dark Brown Liquid
Shelf life	12 months minimum from production date
Base Formulation	SNF Based
Density	1.17 + 0.02kg/liter
PH	7.0 ± 1
Recommended dosage	Recommended dosage: 1 - 2.0 % by weight of cement. It is advisable to carry out trial mixes to establish the exact dosage rate required
Chloride content	Nil as per BS 5075
Air entrainment	Less than 2% as per ISO 9103
Water reduction	> 20 -30% compared with Reference mix
Corrosion behavior	Component were selected according to EN934-1: Annex A.1
Retention of consistence	At 40 mins > Reference mix at initial

SAFETY PRECAUTIONS

- Keep away from contact with eyes and skin.
- In case of skin contact, thoroughly wash the affected area.
- While working, always wear protective gloves and eye protection.
- If the product comes into contact with your eyes, open your eyes wide, rinse with warm water, and seek immediate medical attention.

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SHELF LIFE

Shelf life in unopened original containers is 12 months when stored at 70°F (21°C).

STANDARD COMPLIANCE

Conforms to the requirement of ASTM C 494 Type A & F

HEALTH & SAFETY

- Please ensure that hand gloves and goggles are worn during installation
- Apply in ventilated areas, away from flames
- It is only important that during application and after application, standard safety procedures are done.
- Please consult current MSDS for product.
- *For Professional Use only.*

ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

LEGAL NOTE

The information and recommendations relating to the application of Costarchem 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 Costarchem 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. Costarchem 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.