

# COSTARMIX 200DG

High Performance Water Reducing and Retarding Super Plasticizing Admixture with Higher initial Slump and Retention Time



## PRODUCT DESCRIPTION

COSTARMIX 200DG is high performance water-reducing admixture with higher retention time design to produce high slump concrete with improved workability, durability and also reduces permeability.

COSTARMIX 200DG is a ready-to-use liquid which is dispensed into the concrete together with the mixing water.

The plasticizing effect and water reduction are higher if the admixture is added to the concrete after 70-80% of the mixing water has been added.

## ADVANTAGES

- High initial slump retention time
- Improved workability, air entrainment and pumping properties
- It is suitable for use in production of flowing concrete for easier construction with quicker placing and compaction without increasing water content
- Improved compressive and flexural strength of the concrete both at early and final stage.
- Reduced dimensions of long term shrinkage and creep.
- Also minimizes risk of segregation and bleeding
- Chloride-free and suitable for pre-stressing
- Protection of reinforcement steel against detrimental water-borne attack
- Reduces the need for job site adjustment of slump and workability
- Liquid – Easy to use.
- Low dosage – Economical.
- Improved surface finish.
- Increased durability.

## AREA OF USE

- To provide excellent strength at early ages and major increases in strength at all ages by significantly reducing water demand in a concrete mix.
- Costarmix 200DG is used to produce various ranges of concrete such as:
  - ready-mix,
  - pumped concrete,
  - micro silica concrete etc.
- Used to produce durable and workable concrete with lower total water content

## OVERDOSING

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.

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

## DISPENSING

The measured quantity of Cotarmix 200DG should be added along with the gauging water.

For best results, add Costarmix 200DG in the last phase after pre-wetting the mix with 70-80% 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

<b>packaging</b>	20L, 210L, 1000L
<b>appearance</b>	Dark Brown Liquid
<b>Shelf life</b>	12 months minimum from production date
<b>Base Formulation</b>	SNF Base
<b>density</b>	1.20 ± 0.01kg/liter
<b>PH</b>	7.0 ± 1
<b>Water reduction</b>	> 25 - 35% compared with Reference mix
<b>Corrosion behavior</b>	Component were selected according to EN9-314: Annex A.1
<b>Retention of consistence</b>	At 45 mins > Reference mix at initial
<b>Recommended dosage</b>	The optimum dosage of Costarmix 200 DG to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. For high strength, high workability concrete the typical dosage range is from 1.0% to 2.0% by weight of cement.
<b>Chloride content</b>	Nil: as per BS 5075
<b>Air entrainment</b>	Less than 2%: as per ISO 9103



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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 G, BS 934-2

## 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.

