

# COSTARMIX RETARDER 200

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

## Description

Costar Retarder 200 is high performance water-reducing and retarding admixture with higher retention time designed to produce high slump concrete with improved workability, durability and also reduces permeability.

Costar Retarder 200 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 and 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
- Green products: the production and use of the product does not produce pollution of the natural environment, in line with ISO14000 environmental protection and management of international standards
- The product is suitable for the production of high-performance concrete, high strength concrete, large flow of concrete in the application performance.

## 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.  
Costar Retarder 200 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  
Particularly suitable for precast concrete and other high early strength requirements.

## Typical Dosage

Optimum dosage should always be determined by trials using the materials and conditions that will be exposed in use to meet specific requirements. Typical dosage for Costar Retarder 200 is within the range of 0.6kg - 0.75kg to 50kg of cementitious material.

## Technical Details

Appearance	Dark Straw
Chloride Content	Nil to BS 5075/BS: En934
Specific Gravity	<a href="#">1.18@25°C</a>
Air Entrainment	Less than 2% additional air is entrained at normal dosages

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## Typical Result with Costar Retarder 200

	Slump (mm)				Strength N/mm <sup>2</sup>	
	Initial	15 minutes	30 Minutes	45 Minutes	7 days	28 days
Control Mix	25				32	46
0.6Kg (per cement weight)	170	138	124	60	39	54
0.7Kg (per cement weight)	195	170	140	110	33	52

### 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.

### Dispensing

The measured quantity of Costar Retarder 200 should be added along with the gauging water. For best results, add Costar Retarder 200 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.

### Packaging

1000L tank, 210L drum & 25L gallon

### 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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