

COSTAR TOP 100

Aggregate Based Non Metallic Floor Hardener



PRODUCT DESCRIPTION

Costar Top 100 contains special hardwearing aggregates which have been selected for abrasion and wear resistant properties as well as shape and size. It is specifically designed for hardening of freshly placed concrete, Costar Top 100 provides a highly abrasion resistant surface for concrete floors by the dry shake- on method which ensures that the hardwearing surface bonds monolithically to the base concrete. They are ideally suited for all industrial areas subject to light-heavy traffic.

FEATURES

- Provides a hardwearing abrasion resistant surface
- Significantly increases the life of concrete over that of untreated concrete
- Resist penetration by oil, grease and other contaminants
- Increases anti dusting properties of the concrete
- Forms monolithic bond with base concrete
- Water, oil and other contaminants resistant.

USES

It is typically applied as a dry shake over freshly placed concrete in industrial, commercial, loading bays, Factories, Warehouse, Car Park, Trucking Lanes, Workshops, Garages, Subways, power Stations & Abattoirs.

APPLICATION

Base Concrete

The base concrete should have a minimum cement content of 300 kg/m³ with low slump of 40-60mm. This improves the quality of concrete mix and enables low w/c ratio to be kept. By using Costamix 200, workability of base concrete can be improved with a low w/c ratio.

Method of Laying Base Concrete

The base concrete must be laid in accordance with good concrete practice either in bays or long strips. Particular care must be taken at the corners and edges of the bays to obtain good compaction and to maintain level for subsequent trowel operations. If too much of free water is seen on the surface, water content in subsequent concrete must be reduced to obviate the presence of free water.

APPLICATION INSTRUCTION

The time of the application is very important in order to derive the full benefits. If Costar Top 100 is applied too early, it will absorb water, and hard wearing aggregate may sink to the bottom. If application of Costar Top 100 is delayed, no moisture from the concrete surface will be available to hydrate Costar Top 100, resulting in poor pitted surface. As a guide, the application should be made between 1 Hour-1.5 Hour or when surface water on concrete is completely evaporated. (When tested with Thumb, it leaves an impression but concrete does not stick to the Thumb). The theoretical application rate is 5 kg/m² of Costar Top 100 Powder.

The application is made in two stages:

1. First 50% of the required material is broadcast evenly and when the surface darkens with the absorption of water, the surface is floated.
2. The second application is made immediately, by evenly broadcasting the balance 50% material and when the surface has darkened with the absorption of water, the surface is floated. Power floating would be ideal. Floating is recommended with half or full disc. The second troweling is done after the surface has sufficiently stiffened i.e. after two hours after the first troweling, to close any pores and remove any undulations on the surface. Final hand troweling is recommended to remove any disc marks.

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TECHNICAL PROPERTIES

Packaging	20kg bag		
Application rate/ coverage	Traffic	Application rate kg/m ²	Coverage per bag m ²
	Light	3.0 - 4.5	4.4 - 6.7
	Moderate	5.0 - 6.5	3.1 - 4.0
	Heavy	7.0 - 7.5	2.7 - 2.9
Colour	Grey		
Compressive strength	>60MPa		
Abrasion resistance	200% better than plain concrete (BS 6431:part 20)		
Resistance to rusting	No rusting after 100hrs of salt spray (ASTM B 117 -97)		

SELF LIFE

Shelf life is 12 months provided the temperature is kept within the range of 5°C to 50°C.

STANDARD COMPLIANCE

Conforms to the requirement of EN 13813, ISO 2555, ISO 1768

PRECAUTIONS

Costar Top 100 contains cement that when in contact with bodily fluid may cause irritation and other allergic reaction to those predisposed. If Costar Top 100 comes in contact with bodily fluid or eyes rinse immediately with copious amount of water and seek medical attention immediately. Please refer to the most recent MSDS for more information.

ADDITIONAL INFORMATION

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

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Dampproofing 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.