

# COSTAR TOP 100

## Aggregate Based Floor Hardener

### 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 or medium 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/m<sup>3</sup> 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 of Costar Top 100

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 application rate is 5 kg/m<sup>2</sup> 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.

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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. For additional technical support please contact us or your local distributor for Costar Building Product System.

### Consumption

Costar Top 100 is applied at the rate of 5 kg/m<sup>2</sup>. Greater application rates may be used with special considerations.

### Technical Details

Application Rate (Kg/m <sup>2</sup> )	Intended Traffic Use	Average Wears (IS: 1237-1980)
5.0	Medium	>2<3.5mm
3.0	Light	>3.5<4mm

### Curing

After final troweling, as soon as the surface has hardened sufficiently, to prevent damage, it should be covered with a polythene sheet and made air tight by placing sand all-round the sheet for a minimum period of 7 days. Alternatively curing by ponding is recommended for a minimum 7 days.

### 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.

### Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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