

# ALEX HARD TOP



## Pre-mixed Concrete Hardening Surface

### Description

**ALEX HARD TOP** is a dry shake on non-Metallic floor hardener, it is designed of synthetic mineral aggregates. Special hard wear well. Together with a unique polymer modified Cementations blend which is applied to the surface of fresh concrete or screed.

### Uses

- Garages
- Car maintenance and washes.
- Factories
- Restaurants, shops
- Industrial areas
- Fuel station
- Ware houses
- Parking area
- Power station
- Traffic decking
- Helicopter pads

### Advantages

- Economic installation
- Simple and easy to use to fresh concrete
- New or old floor can be treated
- Available in a range of colours
- Resistant to oils and greases.
- Provides a hard, abrasion resistant surface.

- Long life performance.
- Non dusting.
- Non oxidizing.
- Low permeability compared with concrete under the same condition.
- Valid for internal and external use.

### Properties:

Specific Gravity	2	
Abrasion Resistance	Increased by 85% greater than control mix	
Compressive Strength, BS 6319-2	70 N/mm <sup>2</sup>	After 28 days.

### Standard

According to ASTM C944 using **ALEX HARD TOP** the abrasion increase by approximately 85% greater than the control concrete mix.

### 1-Timing of application:

Timing of the application of **ALEX HARD TOP** is important. Too early and excess water will be absorbed and the resultant floor surface will be absorbed and the resultant floor surface will be of lower strength. Also the dense aggregate of **ALEX HARD TOP** could sink and be lost from the surface. The approximate time when foot step leave 3 mm imprint in concrete surface.

## 2-Curing

Tests have shown that the proper curing of concrete floors treated with products such as **ALEX HARD TOP** is essential to ensure the physical properties of the floor.

(Recommended ALEXCURE WB)

## 3- Ready to use:

**ALEX HARD TOP** is supplied ready to use on site. Never add cement or aggregates to it.

## Guide in application

### **Application:**

The base concrete should have a minimum Cement content of 300 Kg/m<sup>3</sup>. The concrete mix should be designed to minimize segregation and bleeding of concrete.

Free water: cement ratios of less than 0.55 are required.

The concrete should have a slump of between 75 and 100 mm, use water reducing admixtures is recommended. The base concrete should be laid and compacted in accordance with good concrete practice, Accurate finished profile and minimum laitance build up should be ensured. Particular attention should be paid to bay edges and corners to ensure full compaction.

When the concrete surface becomes stiff foot leave about 3 mm or imprint start adding **ALEX HARD TOP** on 2 times and the surface to be finished by mechanical helicopter as:-

- Speed 2/3 of the quantity and finish the surface by using a wooden float or mechanical power float (Helicopter)
- Add residual (1/3 quantity) then float again.

### **Coverage:**

3kg/m<sup>2</sup> for light traffic

5 kg/m<sup>2</sup> for medium traffic

7 kg/m<sup>2</sup> for heavy traffic

### **Storage:**

Store out of direct sunlight, clear of the Ground on pallets protected from rain fall.

Protect from extremes of temperatures.

### **Shelf life:**

Up to 12 months if stored in unopened containers according to the manufactured instructions.

### **Packaging:**

**ALEX HARD TOP** is supplied in sealed 25 Kg.

### **Cleaning:**

Tools can be cleaned by water.

### **Guarantee:**

All precaution is taken in manufacture of each product to comply with the standard of each material.

The data sheet for each product for information only and may be corrected and no liability is accepted for it.

The results may have variation because the method of their use condition under which they are applied cannot be anticipated.

### **Technical Service:**

For any technical advice for using the **ALEXCHEM** contact the technical office.