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Accredited Company



# HI CURE - WB

(WATER BASED CONCRETE CURING COMPOUNT)

## Description

HI CURE –WB is a white, low viscosity wax emulsion, which incorporates a special alkali reactive emulsion breaking system. This system ensures that the emulsion breaks down to form a non-penetrating continuous film immediately upon contact with a cementitious surface. This impervious film prevents excessive water evaporation which in turn permits more efficient cement hydration, thus reducing shrinkage and increasing durability.

Once formed, the membrane will remain on the concrete surface until eventually broken down and eroded by natural weathering. Where it is required to apply a further treatment to such concrete surface, it may be necessary to remove the membrane remaining after curing by wire brushing or other mechanical means.

The use of curing membranes on internal floor slabs is generally to be avoided where additional surface finishes are to be applied. HI CURE - WB is however ideal where the concrete surface of a floor slabs is to be left as 'finished'.

## Advantages

- **Single application:** Forms moisture barrier for whole of the curing period.
- **No other curing necessary:** eliminates use of water, hessian or sand, completely.
- **Reliable :** No risk of erratic or poor curing and ensures that cement hydrates efficiently
- **Ensures hard-wearing surface:** Minimizes risk of drying shrinkage, cracks and dusty surfaces.
- **Easy and safe spray application:** Non-toxic and nonflammable.

## Standards compliance

Curing efficiency: HI CURE –WB curing agent complies with the internationally recognized ASTM C309-90 standard.

## Uses

For spraying on freshly cast concrete, or newly exposed concrete surfaces after removal of form work, to form a temporary membrane which will retain sufficient moisture for effective curing to take place. Used for concreting generally but especially useful for large areas of concrete such as pavements, runways and bridge decks; also for vertical or sloping surfaces as on towers, chimneys, canal linings, columns and beams, where water curing is difficult or unreliable.

## Properties

Colour	Bulk Liquid	-	White
Minimum application temperature		-	30 minutes

## Application instructions

### Application

Exposed concrete slabs: HI CURE - WB should be spray applied on to the newly placed concrete slab as soon as possible after it is free from visible surface water, e.g. typically 1 to 2 hours after placing.

Shuttered and precast concrete: HI CURE - WB curing agent should be spray applied to all surfaces as soon as formwork has been removed or the element demoulded.

In all cases the nozzle of the spray should be held approximately 450mm from the concrete surface and should be passed back and forth to ensure complete and even coverage. The pump pressure should be maintained at a level to produce a fine spray ensuring complete coverage of the surface.

Rate of application depends on requirements but is typically within the range of 200 to 285 ml/m<sup>2</sup>.

### **Equipment**

The preferred and generally used equipment is a knapsack sprayer of the type commonly used in horticulture or pest control. The ideal type is a knapsack sprayer with a capacity of between 5 - 10 liters fitted with a 2.0m lance and adjustable spray nozzle.

### **Equipment Cleaning**

Immediately after use the spray equipment should be cleaned out thoroughly with fresh water. If the spray nozzle becomes blocked with wax particles these can easily be removed using white spirit or similar fluid.

### **Packaging**

HI CURE - WB is available in 5, 20 and 200 liter drums.

### **Precautions**

#### **Health and safety instruction**

HI CURE - WB is non toxic. It is advisable to wear goggles when spraying. Inhalation of the spray should similarly be avoided. Should skin contact with the compound occur it shall be washed with clean water and a skin conditioning cream shall be applied. If HI CURE - WB comes into contact with eyes it shall be washed with clean water. If irritation persists, immediate medical attention shall be sought. If the compound is swallowed, vomiting should not be induced but medical assistance shall be obtained immediately

#### **Fire**

HI CURE – WB is water based and non flammable.

### **Storage**

HI CURE - WB has a shelf life of 6 months when stored at temperatures between 5°C and 35°C. Containers should be kept airtight to prevent surface evaporation. Freezing or prolonged exposure to direct heat or sunlight must be avoided.

### **Technical Support**

Technical Consulting Team is available at factory for 24 x 7 to support customers on request for advises or suggestions.

### **Application Division**

We are having a division for case studying, advising methodology of treatment, estimation & undertake the job on contract bases.

### **Note**

Our Products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Hindustan Construction Chemicals & Allied Products Endeavour's to ensure that any advice, recommendation specification or 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 or information given by it.

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