



## HIND ERS HBC

### PRODUCT DATA SHEET

#### TWO COMPONENT SELF SMOOTHENING EPOXY SYSTEM FOR FLOORING AND HIGH BUILD COATING APPLICATION

##### DESCRIPTION

**Hind ERS HBC** is a two component, total solid, solvent less, self-smoothing epoxy system specially developed for flooring and high build coating application.

##### USES

**Hind ERS HBC** is developed for use in cleanroom environments in Pharma, Hospitals, Optical goods and Food industries. It is also recommended as a hard-wearing coating for Automotive, Storage facilities, Warehouses and Pharmaceuticals industries.

##### ADVANTAGES

- Solvent less
- Chemical and mechanical resistance
- Easy to clean
- Economical
- Self-smoothing
- Glossy finish

##### APPLICATION

###### Substrate Preparation/Pre-treatment

The concrete substrate to be properly cleaned and it should be sound, dry with Compressive Strength of minimum **25N/mm<sup>2</sup>** and pull off strength of **1.5N/mm<sup>2</sup>**. Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using polymer mortar based on **Hind Crete Plus WPM**. It should be free from loose particles, curing compound membrane, waterproofing treatments, paints, floor coverings, oil, laitance, other containments, dirt and dust. Cement laitance to be removed from the concrete surface by sand blasting, wire brushing for total adhesion.

###### Mixing

Prior to mixing, it should be ensured that **Part A** stirred properly mechanically. After all of **Part B** has been added to **Part A**, continuously mixing for **2 minutes** is carried out until a uniform mix has been achieved by using a Low-speed electrical mixer (300-400 rpm) fitted with a stirrer or any other suitable equipment. Over mixing must be avoided to minimize air entrainment.

###### Method of Application

Before application of **Hind ERS HBC**, the substrate moisture content, relative air humidity and dew point should be **> 4%** parts by weight moisture content.

###### Levelling:

Rough surfaces need to be levelled first.

### Smooth Wearing Course smooth

**Hind ERS HBC** is poured, spread evenly by means of a serrated trowel. After spreading the material evenly, turn the serrated trowel and smooth the surface in order to achieve an aesthetically higher grade of finish. Roll immediately (within max. 10 minutes of application) in two directions with a steel spiked roller to ensure even thickness and to remove entrapped air. To obtain the highest level of aesthetic finish, spike roll in two directions at a 90° angle, passing only once in each direction.

### Cleaning of Tools

Clean all tools and equipment with Thinner immediately after use. Hardened and/or cured material can only be removed mechanically.

### PROPERTIES

Type of Compound	<b>Hind ERS HBC - Part A (Modified Epoxy Resin) , Part B (Hardener)</b>
Aspect	Part A (Coloured Viscous Liquid), Part B (Transparent Liquid)
Density at 25 <sup>0</sup> C	Part A ~ 1.75 g/cc, Part B ~ 1.00 g/cc
Mixing Ratio	Part-A : Part B :: 100:20 parts by weight
Pot Life	20-30 minutes at 30 <sup>0</sup> C
Tensile Adhesive Strength	>1.5 N/mm <sup>2</sup> (Failure in concrete)
Tensile Strength	20-25 N/mm <sup>2</sup>
Compressive Strength	75-85 N/mm <sup>2</sup> after seven days
Hardness (Shore D)	80-85
Abrasion Resistance	30 gm maximum weight loss

**Note:** Higher temperature shortens the curing & working time, lower temperature extends the durations. Ideal Temperature is 23<sup>0</sup> C and 50<sup>0</sup> C Relative Humidity.

### Curing Schedule

Substrate temperature

**at 15°C : 24 hrs to 4 days**

**at 20°C : 12 hrs to 2 days**

**at 30°C : 8 hrs to 1 day.**

**Curing schedule for specimens: 7 days at 25°C**

### SHELF LIFE

Best before **12 months** for **Part A (Resin)** and **6 months** for **Part B (Hardener)** from the date of manufacture in unopened condition. Should be stored in a well-ventilated, cool and dry place and protected from direct sunlight.

### PACKING

Available in **1Kg, 6 Kg, & 18 Kg, Kit in Plastic Packing or as required.**

## HANDLING PRECAUTION

**Hind ERS HBC** is non-toxic and ingestion is to be avoided. Use gloves, goggles and barrier cream. Avoid contact with skin. Ensure adequate ventilation during application.

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### Note:

- **Hindcon Chemicals** maintains a team of technically trained professionals to provide full support to your problems in construction, and recommend the correct product to suite your specific requirements. Our authorized applicators can attend your site for application of the products.
- The content of the Technical datasheet are for general information and guideline. The result shown here are generated from our laboratory or from our site experiences.
- Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behavior can change as per the prevailing conditions at the time of applications.
- Since **HINDCON CHEMICALS LIMITED** has no control over the use to which the users may put the material, it does not claim or warrant that in the user's particular circumstances, the result that the user will obtain from the product will be the same as those described in this communication or that the user will find the information or recommendations complete, accurate or useful. The client must test and ascertain the safety and fitness for the product for use.
- The right to change the properties of the products is reserved with us. The proprietary rights of third parties must be observed. All orders are accepted subject to the terms of sale and delivery. Users must always refer to the most recent issue of the latest Data Sheet for the product concerned, copies of which will be supplied on request.

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(AN ISO 9001: 2015 COMPANY)

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