

# HIND SELFLOOR 2000

EPOXY SELF LEVELING FLOOR TOPPING SYSTEM



## DESCRIPTION

**Hind Selffloor 2000** is an epoxy based self-leveling floor topping compound consisting of four components viz. **Hind Selffloor 2000 - R (Resin)**, **Hind Selffloor 2000 - H (Hardener)**, **Hind Selffloor SL 2000 (Silica Powder)** and **Hind Selffloor 2000- CP (Colour Paste)**. A two component **Epoxy Primer Hind ERS Prime (Primer)**, is recommended for coating on the thoroughly cleaned substrate prior to application of self leveling floor topping.

## AREA OF APPLICATION

**Hind Selffloor 2000** system can be used to form smooth, abrasion resistant levelled floor in Plant Rooms, Automobile Industries, Pharmaceuticals, Printing Industries, Warehouses for storage requiring protection from dust, Research Laboratories, Store rooms, Hospitals, Nuclear Power Plants, Dairy & Industrial Kitchens, Food Processing Plant, Bottling Plant, Control Rooms, Paper Mills, Computer rooms & Prayer Houses.

## ADVANTAGES

**Hind Selffloor 2000** is an attractive floor topping and is characterized by:

- Smooth & joint less finish.
- Excellent adhesion to concrete and other mineral surfaces.
- Solvent & Odour free & Easy to clean
- Durable, good Chemical and abrasion resistance.
- Provides very hygienic surface which can be cleaned easily.
- Durable and abrasion resistant.
- Very attractive and available in a wide range of colors.
- Does not support bacterial growth.
- Resistant to wide range of chemicals.

## APPLICATION

### Treatment of Joints

Joints in substrate should be maintained while floor topping with **Hind Selffloor 2000** is done. **Hind Selffloor 2000** should be used only on high strength substrates. New concrete should be cured for minimum 28 days.

**Surface Preparation:** The surface should be sound, dry, free from all dust, dirt, greasy spots, cement laitance and loose particles adhering to the surface before application of primer.

### Priming:

Prior to application of **Hind Selffloor 2000** the prepared surface should be given a coat of **Hind ERS Prime (Primer)** as per specification. Curing of the primer to become tack free is required for at least 6 hrs but it depends upon the ambient temperature. Preferably the application of **Hind Selffloor 2000** is to be done after 24 hrs from application of primer.

### Mixing:

Preferably use a slow speed electric stirrer for mixing the components. Firstly, **Hind Selffloor 2000 - R (Resin)**, is mixed with **Hind Selffloor 2000 - CP (Colour Paste)** in a mixing vessel until uniform color is obtained. Then **Hind Selffloor 2000 - H (Hardener)** is added and stirred well for 2-3 minutes. Finally **Hind Selffloor 2000 - SL 200 (Silica Powder)** is added and stirred until a homogenous mixture is obtained.

Now the mixed material of **Hind Selffloor 2000** is spread on the prepared surface by using toothed trowel or comb. The thickness should be approximately **1mm or 2 mm**. After approx. 10 minutes spiked roller is used to remove the entrapped air. Allow floor topping to cure for **2 to 7 days** at room temperature before in use. Depending upon the size of the trowel, thickness can be adjusted from **1 mm to 2mm**.

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**Note:** The application of Hind Selffloor 2000 is to be done with specialized applicator equipped with the Tools required and experienced for laying epoxy flooring systems. It should not be applied to floors at ground level where rising dampness may occur or at places where the temperature is more than 50°C.

## PROPERTIES

<b>Hind Selffloor 2000</b>	<b>R (Resin) , H (Hardener) ,CP (Colour Paste), Aggregate</b>
Mixing Ratio (Pre- Packed)	
Working Time	40- 45 mins. at 27°C
Compressive Strength	≥ 40 Mpa
Tensile Strength ASTM D 638	≥ 7 Mpa
Flexural Strength ASTM D 790	≥ 10 Mpa
Abrasion Resistance ASTM D 4060	≤ 75 Mg loss
Coverage	1.55 Kg mixed material for 1mm thickness for 1 Sq. Mtr.

**Note: Curing schedule for specimens: 15 days at Room temperature (25°C - 40°C)**

## CHEMICAL RESISTANCE

Resistance to various chemicals at Ambient Temperature 25 – 35°C

No.	Chemical	Concentration	Observation
1.	Acetic acid	5%	Resistant
2.	Hydrochloric acid	20%	Resistant
3.	Sulphuric acid	50%	Resistant
4.	Nitric acid	10%	Resistant
5.	Phosphoric acid	30%	Resistant
6.	Salt solution	Concentrated	Resistant
7.	Sodium hydroxide	30%	Resistant
8.	Water	-	Resistant
9.	Lactic	10%	Resistant
10.	Citric acid	10%	Resistant
11.	Petrol	-	Resistant
12.	Oil	-	Resistant
13.	Fruit juice	-	Resistant

## Cleaning of Tools:

The cleaning of all tools and equipment contaminated with **Hind Selffloor 2000** or Primer to be cleaned with suitable solvent (MEK or Xylene). Cleaning should be done before it starts to gel or harden.

## Color Range:

Hind Selffloor 2000 is available as per selected RAL Colour shades.

## PACKING

Available in 17.26 Kg Pack/24.1 Kg Pack.

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## COVERAGE

Thickness	Coverage/Pack
Hind Selfloor 2000 1.0 mm Thick	10.5 Sq. Mtr per Pack (17.26 Kg/Pack)
Hind Selfloor 2000 1.0 mm Thick	14.7 Sq. Mtr per Pack (24.1 Kg/Pack)

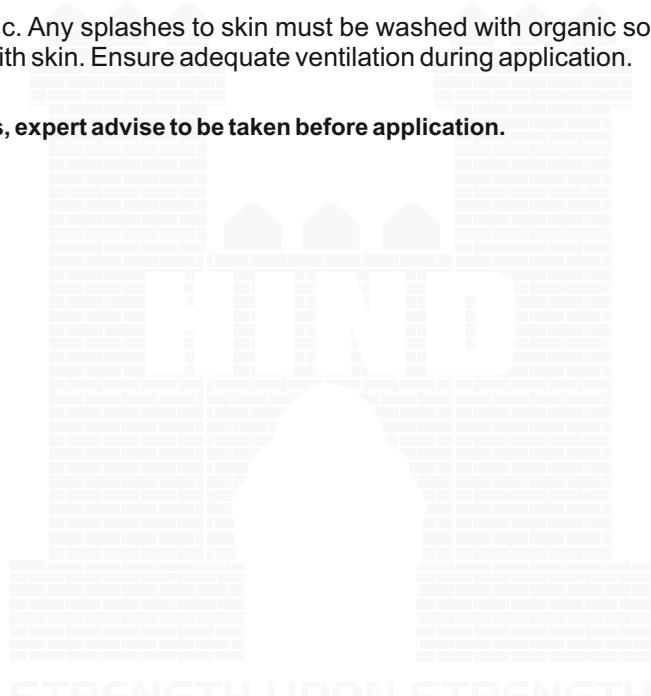
## SHELF LIFE

**Hind Selfloor 2000** should be stored in well ventilated place. The area of storage shall be covered protecting the material from direct sunlight. The shelf life of these products shall be **12 months** from the date of manufacture in sealed unopened container.

## HANDLING PRECAUTION

**Hind Selfloor 2000** is nontoxic. Any splashes to skin must be washed with organic solvent. Use gloves, goggles and barrier cream. Avoid contact with skin. Ensure adequate ventilation during application.

**Note:** During cold temperatures, expert advise to be taken before application.



## IMPORTANT NOTICE :

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.

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