

HIND SELFLOOR 2000

EPOXY SELF LEVELING FLOOR TOPPING SYSTEM



DESCRIPTION

Hind Selfloor 2000 is an epoxy based self-leveling floor topping compound consisting of four components viz. **Hind Selfloor 2000 - R (Resin)**, **Hind Selfloor 2000 - H (Hardener)**, **Hind Selfloor SL 2000 (Silica Powder)** and **Hind Selfloor 2000- CP (Colour Paste)**. A two component **Epoxy Primer Hind ERS 21 P (Primer)**, is recommended for coating on the thoroughly cleaned substrate prior to application of self leveling floor topping.

AREA OF APPLICATION

Hind Selfloor 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 Selfloor 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 Selfloor 2000** is done. **Hind Selfloor 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 Selfloor 2000** the prepared surface should be given a coat of **Hind ERS 21 -P (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 Selfloor 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 Selfloor 2000 - R (Resin)**, is mixed with **Hind Selfloor 2000 - CP (Colour Paste)** in a mixing vessel until uniform color is obtained. Then **Hind Selfloor 2000 - H (Hardener)** is added and stirred well for 2-3 minutes. Finally **Hind Selfloor 2000 - SL 200 (Silica Powder)** is added and stirred until a homogenous mixture is obtained.

Now the mixed material of **Hind Selfloor 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 Selfloor 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

Type of Compound	Hind Selfloor 2000 - R (Epoxy Resin), Hind Selfloor 2000 - H (Modified Cycloaliphatic Hardener), Hind Selfloor 2000- CP (Colour Paste) and Hind Selfloor SL 2000 (Silica Powder).
Aspect & Colour	Hind Selfloor 2000 - R - Colourless to yellow clear Liquid Hind Selfloor 2000 - H - Yellow Clear Liquid, Hind Selfloor 2000- CP - Coloured Viscous Paste Hind Selfloor SL 2000 (Silica Powder) - White/Off White Powder
Pot Life of the mixture at 30°C	Approx. 45 minutes.
Curing Thick Layer	1.5g/RT/24 hours (Tack Free)
Mixing Ratio	Hind Selfloor 2000 - R : Hind Selfloor 2000 - H : Hind Selfloor 2000 - CP : Hind Selfloor SL 2000 (Silica Powder) :: 100 : 55 : 7 : 210 parts by weight.
Curing	Foot traffic/Light Load after 24 - 48 hours. Full traffic Load after 7 days
Compressive Strength (ISO 604)	62 N/mm ²
Bond Strength (ASTM D 4541)	35 Kg/m ² (Concrete Failure)
Tensile Strength (ISO 527)	23 N/mm ²
Flexural Strength (ISO 178)	45 N/mm ²
Impact Resistance (ASTM D 2794)	9 Joules
Abrasion Resistance ASTM D 4060, CS-10 Wheel 1000 cycles	0.1 gm. Max weight loss
Dry Heat Resistance ASTM D 2485	80-100°C
Scratch Resistance BS 3900 Part E2	2.5 Kg, No failure.

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 Selfloor 2000** or Primer to be cleaned with suitable solvent (MEK or Xylene). Cleaning should be done before it starts to gel or harden.

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Color Range:

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

PACKING

Available in 18.600 Kg Pack

COVERAGE

Thickness	Coverage/Pack
Hind ERS 21(P) as Primer	5-6 Sq. Mtr per Kg.
Hind Selfloor 2000 2.0 mm Thick	6-7 Sq.Mtr per Pack (18.600 Kg)
Hind Selfloor 2000 1.0 mm Thick	12-14 Sq. Mtr per Pack (18.600 Kg)

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.

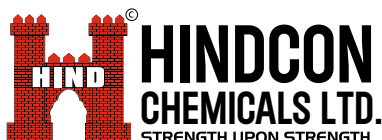
HANDLING PRECAUTION

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.

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.

Quality of our products are maintained as per ISO9001:2008 recommendations and continuous researches. The behaviour 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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