



HIND SELFLOOR 1000 EPSL

PRODUCT DATA SHEET

EPOXY POLYURETHANE SELF LEVELING HYBRID FLOOR TOPPING SYSTEM

DESCRIPTION

Hind Selfloor 1000 EPSL is an epoxy polyurethane based hybrid self leveling floor topping compound consisting of four component viz. **Hind Self floor 1000 EPSL - R (Resin)**, **Hind Self floor 1000 EPSL - H (Hardener)**, **Hind Self floor 1000 EPSL - SL 200 (Aggregate)** and **Hind Self floor 1000 EPSL - 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

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

- Smooth & joint less finish.
- Excellent adhesion to concrete and other mineral surfaces.
- Solvent & Odour free.
- 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.

PROPERTIES

| | |
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| Hind Selfloor 1000 ESPL | EPSL R (Resin) : EPSL H (Hardener) : EPSL CP (Colour Paste) :: EPSL SL 200 (Aggregate) :: |
| Mixing Ratio | 100 : 60: 200 : 7-10 |
| Working Time | 40- 45 mins. at 27 ⁰ C |
| Compressive Strength, BS 3900 Part E2 | No failure, 2-2.5 Kg |
| Bond Strength ISO 179 | 7-10 Kg/m ² |
| Tensile Strength ISO 178 | 40-48 N/mm ² |
| Flexural Strength ISO 604 | 50-55 N/mm ² |
| Impact Strength ISO 527 | 18-23 N/mm ² |
| Abrasion Resistance ASTM D 4541 | 32-35 Kg/m ² (concrete failure) |
| Impact Resistance ASTM D 4060, CS-17 Wheel | 0.2 - 0.1gm (maximum weight loss) |
| Dry Heat Resistance ASTM D 2794 | 3.5 – 4.4 Joules |
| Scratch Resistance ASTM D 2485 | 80-100 ⁰ C |
| Coverage | 1.6 Kg mixed material for 1mm thickness for 1 Sq. Mtr. |

CHEMICAL RESISTANCE

Resistance to various chemicals at Ambient Temperature 25 – 35⁰ C

| CHEMICALS | CONCENTRATION | OBSERVATION |
|-------------------|---------------|-------------|
| Acetic Acid 10 % | 3-5% | Resistant |
| Hydrochloric Acid | 10-12% | Resistant |
| Sulphuric Acid | 10-12% | Resistant |
| Nitric Acid | 7-10% | Resistant |
| Phosphoric Acid | 5-15% | Resistant |
| Salt Solution | Concentrated | Resistant |
| Sodium Hydroxide | 10-20% | Resistant |
| Water | - | Resistant |
| Lactic Acid | 7-10% | Resistant |
| Citric Acid | 7-10% | Resistant |
| Petrol | - | Resistant |
| Oil | - | Resistant |
| Fruit Juice | - | Resistant |

APPLICATION

Surface Preparation: The surface should be sound, dry, free from all dust, dirt, greasy spots before application of primer.

Priming:

Prior to application of **Hind Selfloor 1000 ESPL** 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 1000 EPSL** is to be done after 24 hrs from application of primer.

Mixing:

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

Now the mixed material of **Hind Selfloor 1000 ESPL** 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**.

Note: The application of Hind Selfloor 1000 EPSL 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 50⁰C.

Cleaning:

The cleaning of all tools is to be done by organic solvent like Xylene.

Color Range:

Hind Selfloor 1000 EPSL is available as per selected RAL Colour shades.

PACKING

Available in 18.350 Kg Pack

COVERAGE

| Thickness | Coverage/Pack |
|---------------------------------------|---------------------------------|
| Hind ERS 21(P) as Primer | 5-6 Sq. Mtr per Kg. |
| Hind Selfloor 1000 EPSL 2.00 mm Thick | 6 Sq.Mtr per Pack (18.350 Kg) |
| Hind Selfloor 1000 EPSL 1.0 mm Thick | 12 Sq. Mtr per Pack (18.350 Kg) |

SHELF LIFE

Best before 12 months from the date of manufacture. Should be stored in a cool and dry place away from direct sunlight at temperature ranging between 2⁰ C (Min.) and 50⁰ C (Max.)

HANDLING PRECAUTION

Hind Selfloor 1000 EPSL is non toxic. Any splashes to skin must be washed with organic solvent. Should be applied by wearing gloves, care should be taken it does not fall on eyes.

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 be supplied on request.

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