HIND ERS (UL -F)

PRODUCT DATA SHEET

HIGH STRENGTH EPOXY FILLERISED UNDERLAY

DESCRIPTION

Hind ERS (UL-F) is a two/three component 100 % solvent free self levelling epoxy underlay used prior to application of self levelling epoxy topcoat with or without filler which when mixed together produce a self-leveling, high gloss monolithic, seamless hygienic and dust resistant tough floor. It is applied after mixing Resin, Hardener and filler in an appropriate ratio to provide self levelling underlay with a very low VOC.

USES

It is used in Residential and commercial buildings, Hospitals, Warehouses, Showrooms, Schools, Laboratories, Automobile, Hospital, Engineering Industries and Food and chemical manufacturing unit where dust for flooring is required.

ADVANTAGES

- High abrasion and mechanical resistance, no seams or joints, excellent resistance to water, detergents
- Extra ordinary bond & adhesive strength, Excellent adhesion to concrete/primer.
- Resistant to microbus and mild chemicals.
- Fast and easy application eliminating construction delays and easy to clean.

APPLICATION

Surface Preparation

The surface to be treated must be thoroughly cleaned. Remove all traces of release agent, fluorinated hydrocarbon, grease, efflorescence, laitance, algae or other contaminant that may prevent proper adhesion. Remove organic materials by scraping, brushing or high pressure water cleaning. Spores must be treated with a suitable fungicide sterilizing agent and carefully rinsed.

Priming

Apply primer as a base coat and let it dry at least for 2 to 3 hours based on **Hind ERS 21 P** and then Hind **ERS (UL-F)** is laid as a middle layer and let it dry at least for 6 to 7 hours.

Mixing & Laying

Usually 1.0 to 3.0 mm thick epoxy based flooring material is recommended and laid over tacky primer surface and levelled immediately after mixing with following proportions. **Hind ERS (UL-F)** is supplied in two / three component composition . Mix gradually **9 parts by weight** of **Component 'A' (Fillerised Resin)** with **1 part by weight** of **Component 'B' (Hardener)** in case of **two component 'OR'** mix **6 parts by weight** of **Component 'C' (Powder)** with **3 parts by weight** of **Component 'A' (Resin)** to make **9 parts** while continuous mixing for at least 3-4 minutes to obtain uniform colour without any streak then add **1 part by weight of Component 'B' (Hardener)** while continuous mixing until a homogeneous flowable consistency pasty slurry is produced. Immediately after mixing pour the homogeneous material on the cured rendered smooth surface and spread evenly by using proper notch trowel of 1 to 3 mm following right technique, otherwise variation in thickness and air bubbles will appear. Finally use the proper spike roller and roll on till the surface is smooth, free from air spot but within the workable time. Follow the same process for the remaining areas.

IMPORTANT NOTE :

i) Ensure that no foreign matters fall on the freshly laid floor during the hardening process.
ii) Precise and efficient smooth surface preparation and rendering is essential to achieve the superior adhesive qualities and economic consumption.

PROPERTIES

Colour	Natural or Various standard colours
Density (Kg/m^3)	2025-2050
Mixing Ratio	**9 :1 ('A': 'B') OR 3:1:6 ('A' : 'B' : 'C')**
Pot Life	20 mins @ $25^0 \pm 2^0$ C
Curing Time	Touch dry -24 hours, Full cure - 14 days
Thickness of Application	1-3 mm
Flexural Strength (N/mm^2)	25-30 in 7 days
Adhesion to Concrete (N/mm^2)	>4.0
Adhesion to Sand Blasted Steel (N/mm^2)	>15 approx. @ $25^0 \pm 2^0$ C
Compressive Strength (N/mm^2)	75-85 in 7 days
Application Temperature	Minimum 12^0 C
Chemical Resistance	Unaffected by a wide range of chemicals, oils etc.
Consumption	**Approximately 2 Kg /Sq. Mtr /mm thickness**

SHELF LIFE

Best before 3 months from the date of manufacture. Shelf Life can be achieved to 6 months if stored in cool and dry place away from direct sunlight at temperature ranging between 5^0 C (Min.) and 27 ^{0}C (Max.).

PACKING

30 Kg Kit.

HANDLING PRECAUTION

Hind ERS (UL-F) epoxy system may cause reaction with sensitive skin and develop allergies or irritation. Therefore, the skin must be protected at all times by wearing rubber gloves, long sleeves and safety goggles to protect the eyes while working with it.

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.