HIND ERS UL 800

HIGH STRENGTH EPOXY UNDERLAY

HINDCON CHEMICALS LTD.
STRENGTH UPON STRENGTH

DESCRIPTION

Hind ERS UL 800 is a three-component epoxy underlay system based on Resin, Hardener and Silica Powder, for surface levelling prior to application of topping for high strength epoxy flooring.

USES

Hind ERS UL 800 underlay system can be used to form smooth, abrasion resistant levelled floor in Assembly shops, Machine shops, Automobile/Engineering Industry, Nuclear Power Plants, Pharmaceutical Plants, Industrial floors, Car Workshops, Food processing plant and Bottling plants, etc.

ADVANTAGES

Hind ERS UL 800 underlay system on curing exhibits following properties:

- Monolithic floor.
- Excellent bonding to primer and overlay.
- Good mechanical properties.
- Excellent abrasion resistance.
- Smooth finish.

APPLICATION

Joints Treatment

Joints in substrate should be maintained while flooring with Epoxy underlay is done. Epoxy underlay should be used only on high strength substrates. New concrete should be cured for minimum 28 days.

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.

Primer application

Use the primer as recommended for specific use. Mix both the components of **Hind EP Prime 800** primers in proportion as recommended. Once mixed, primer should be immediately applied in a thin layer, continuous film using stiff brush/ roller or trowel. Porous floors may require two coats of primer. Primer should be allowed to cure sufficiently, normally 6 - 18 hrs.

Mixing & Application

Hind ERS UL 800 epoxy underlay system is supplied in pre-weighed two components ready to use at site. Preferably a slow speed electric stirrer is used for mixing component. First mix **Part A - Resin** with **Part B - Hardener** in a mixing vessel. Finally add **Part C - Silica Powder** and stir until a homogeneous mixture is obtained. Spread **Hind ERS UL 800** epoxy underlay mixture on the prepared surface by using serrated trowel. Lay the desired thickness. After approx. 5-10 minutes, use spiked roller to remove entrapped air. Allow underlay to cure for 12- 18 hours at ambient temperature before use. Depending upon the size of the trowel thickness can be adjusted from 1 mm to 3 mm

Cleaning of Tools

Tools and equipment contaminated with epoxy underlay can be cleaned with suitable solvent. Cleaning should be done before it starts to gel or harden.

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PROPERTIES

Type of Compound	Hind ERS UL 800 - Part A (Solvent Less Epoxy Resin Hind ERS UL 800 - Part B (Amine Adduct Hardener) Hind ERS UL 800 - Part C (Silica Powder).
Aspect & Colour	Hind ERS UL 800 - Part A (Resin) - Colourless to pale yellow clear Liquid Hind ERS UL 800 - Part B (Hardner) - Brown/Dark Brown clear Liquid Hind ERS UL 800 - Part C - White/Off White Powder (Silica Powder)
Density at 25ºC gm/ml	Hind ERS UL 800 - Part A (Resin) - 1.1 (typical) Hind ERS UL 800 - Part B (Hardener) - 1.0 (typical)
Viscosity at 25ºC mPa s	Hind ERS UL 800 - Part A (Resin) - 9000 - 15000 Hind ERS UL 800 - Part B (Hardener) - 1200 – 2500
Pot Life of the mixture at 30ºC	Approx. 45 minutes.
Mixing Ratio	Hind ERS UL 800 - Part A (Resin) Hind ERS UL 800 - Part B (Hardener) Hind ERS UL 800 - Part C (Silica Powder) :: 100 : 100 : 350 parts by weight. (For Underlay of 2-3 mm)
	Hind ERS UL 800 - Part A (Resin) Hind ERS UL 800 - Part B (Hardener) Hind ERS UL 800 - Part C (Silica Powder) :: 100 : 100 : 100 parts by weight. (For Underlay thickness 300µ -500 µ)
Curing	Foot traffic/Light Load after 24 - 48 hours. Full traffic Load after 7 days
Compressive Strength (ISO 604)	65 N/mm^2
Bond Strength (ASTM D 4541)	35 Kg/m^2 (Concrete Failure)
Tensile Strength (ISO 527)	25 N/mm^2
Flexural Strength (ISO 178)	50 N/mm^2
Impact Resistance (ASTM D 2794)	9 Joules

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

SHELF LIFE

Best before 12 months from the date of manufacture in unopened condition. Should be stored in cool and dry place away from direct sunlight.

PACKING

9 Kg /27.500 Kg Kit.

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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