

# HIND HYDRO FLEX PU (E)

SINGLE COMPONENT PURE POLYURETHANE COATING FOR EXPOSED SURFACES



## DESCRIPTION

**Hind HydroFlex PU(E)** is single component, coloured pure polyurethane elastomeric waterproofing membrane for exposed surfaces. It is a highly flexible, cold applied and Ultra Violet resistant, waterproofing membrane for Exterior wall and Roof application. It has low VOC contents (< 50 g/L) and is considered to be an Environment friendly product. It can span over cracks & fissures upto 2mm in width.

## USES

**Hind HydroFlex PU(E)** is formulated especially for application on concrete, cement board, fibre board and brick surfaces subjected to UV exposure. It is recommended for use over Concrete & Metal Roofs, Exterior walls of buildings, balconies, wet area, terraces, planter boxes and External Building Facade etc.

## ADVANTAGES

- To be applied over external concrete & steel/metal surface.
- Seamless, Self- Levelling and Roller applicable.
- Flexible and withstand Structural movement and Crack-bridging.
- Can withstand pedestrian traffic.
- Dust free and resistant to general chemicals.
- High Solid content greater than 90%.
- Quick Drying 2-3 hours at 25-30°C.
- Available in a wide range of attractive colours.

## APPLICATION

### SURFACE PREPARATION

#### Concrete

Concrete should be subjected to curing for 28 days. The concrete surface over which the coating is to be applied should be structurally sound, clean, dry, free from loose particles, oil, laitance and other containments. **Hind PU Sealant** to be used to fill in joints or cracks and form fillet to internal corners or penetrations.

#### Steel

Steel surface to be cleaned mechanically to obtain a shining finish. If prepared surface is contaminated by moisture or other contaminants, it should be cleaned again.

#### Priming

Over the prepared Concrete/Steel surface, one coat of **Hind HydroFlex Primer** to be applied to make the surface smooth and also to achieve perfect bonding of the coating with the surface.

#### Application

We recommend application of 2 coats of **Hind HydroFlex PU(E)** to be done using a roller and rubber squeegee. This first coat must be allowed to dry completely before application of the second coat. To make it UV resistant we recommend to use **Hind HydroFlex PU(E)** as a top coat @ 0.2 - 0.4Kg /m<sup>2</sup>.

## STANDARDS COMPLIANCE

**Hind HydroFlex PU(E)** complies with the requirements of the following standards , **ASTM C 836 / 836 M-11**

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## PHYSICAL PROPERTIES

Product Composition	Pure Polyurethane
Colour	Available in various attractive colours
Density	1.2-1.3 kg/Ltr.
Solid Content (ASTM D 2369)	> 90%
Tensile Strength (ASTM D 638)	> 3.0 N/mm <sup>2</sup>
Elongation at break (ASTM D 638)	> 600%
Tear Strength (ASTM D 624)	> 10 N/mm <sup>2</sup>
Adhesion to Concrete	> 1.2 N/mm <sup>2</sup>
Hardness (Shore A) (ASTM D 2240)	60
Touch dry (@ 25°C, 65% R.H)	2-3 hours
Curing Time	12-24 hours
VOC Content	47.63 g/L (< 50g/L)

## PACKING

Hind HydroFlex PU(E) is available in 18 Kg. Plastic Container.

## COVERAGE

0.9 to 1.2 Kg per m<sup>2</sup> for 1mm thickness depending on the surface condition.

## STORAGE

6 months in original unopened container. Do not expose or open container to high humidity conditions.

## HANDLING PRECAUTION

Hind HydroFlex PU(E) is non-toxic but ingestion is to be avoided. Any splashes to the skin must be washed with water. If contact with eyes occurs, wash well immediately with water and seek medical advice.

## 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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