



## HIND HYDRO FLEX PU

### PRODUCT DATA SHEET

#### SINGLE COMPONENT PURE POLYURETHANE COATING FOR NON-EXPOSED SURFACES

#### DESCRIPTION

**Hind HydroFlex PU** is single component, elastomeric pure polyurethane resin. It is an excellent performing, high solid content moisture cure system. It has low VOC contents (< 50 g/L) and is considered to be an Environment friendly product. It conforms to **ASTM C 836 - 95** and **ASTM C 898-95**.

#### USES

**Hind HydroFlex PU** is formulated for application as an exclusive concealed waterproofing system. It is used for waterproofing of kitchen, toilet, balconies, terraces, planter boxes, reinforced concrete roof, external tanking of basements, swimming pool, retaining walls, sub-grade floors and wall slabs.

#### ADVANTAGES

- Easy and ready application from containers with brush, rollers or spray.
- Seamless, Self- Leveling and Roller applicable.
- Flexible and withstand Structural movement and Crack-bridging.
- Chemical resistant and does not allow bacterial growth.
- Dust free and resistant to general chemicals.
- High Solid content greater than 90%.
- Quick Drying 2-3 hours at 25-30<sup>0</sup> C.

#### 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 contaminants. **Hind PU Sealant** to be used to fill in joints or cracks and form fillet to internal corners or penetrations.

##### Priming

Over the prepared Concrete surface, one coat of **Hind Prime PU/Hind Hydroflex AQPU (Primer)/Hind ERS 21 P** 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** 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 protect the membrane from getting damaged, screed concrete, polystyrene boards or roofing felts is recommended. If it is to be applied to exposed surface us **Hind Hydro Flex PU (E)** as a top coat to make it **UV Resistant**.

## PHYSICAL PROPERTIES

Product Composition	Pure Polyurethane
Colour	Light Grey
Density	Approx 1.45gm/cc
Non volatile Content (ASTM D 2369)	> 80%
Tensile Strength (ASTM D 638)	> 2.0 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)	50
Touch dry (@ 25 <sup>o</sup> C, 65% R.H)	Approx 3 hours
Full Curing Time	7 days
Service Temperature	-40 <sup>o</sup> C to +100 <sup>o</sup> C
VOC Content	29.25 g/l (< 50g/l)

## PACKING

Hind HydroFlex PU is available in 25 Kg. Metal Bucket.

## COVERAGE

1.5 Kg per m<sup>2</sup> for 1mm thickness in case of smooth surface.

## STORAGE

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

## HANDLING PRECAUTION

Hind HydroFlex PU 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.

### 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.

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