



HIND HYDROFLEX POLYUREA (P)

PRODUCT DATA SHEET

TWO COMPONENT, CHEMICAL RESISTANT, RAPID CURING PURE POLYUREA BASED WATERPROOFING MEMBRANE

DESCRIPTION

Hind Hydroflex Polyurea (P) is two component, chemical resistant, rapid curing pure polyurea based waterproofing membrane. It is solvent free and MDI as an Isocyanate is added which has low vapour pressure. This system functions with the Polyamine and Amine chain extender as a resin part and does not react with Polyol resulting to fast curing with the presence of any Catalyst. It can be used as an internal coating for potable water concrete tank which is safe for human consumption. The gel time of the system ranges from 5-15 seconds and curing time of 3-5 minutes. It contains 100% solid, pre-heated and spray applied rapid curing elastomeric waterproofing membrane and has excellent resistant to wide range of aggressive chemicals.

USES

Hind Hydroflex Polyurea (P) is recommended as a waterproofing and protective coating for concrete and steel substrate that are exposed to wide range of aggressive chemical and environmental conditions. Typical applications include Potable Water tanks, Pipe coating (concrete, steel), Underground Structures, Foundation walls and sumps. Submerged Structures, Concrete and Steel surfaces in sewage treatment plant, Marine Structures requiring protection, Chemical Plants, Crude oil storage tanks, Paper Mills, Dams, Barrage gates, Penstocks, Industrial effluent treatment tanks and Bridge Deck waterproofing etc.

ADVANTAGES

- It is Moisture Insensitive and Rapid Curing.
- It forms seamless membrane.
- Zero VOC and is Eco-friendly.
- Excellent Abrasion, Impact and Puncture resistant.
- Posses an excellent chemical resistant property.
- Can be applied in wide range of extreme weather conditions (-50 °C to + 200 °C)
- Is available in wide range of attractive colours.

SURFACE PREPARATION

Suitable surface preparation to be should done by water jetting or wet grit blasting to make the surface free from oil, grease, all loose particles, laitance and other foreign containments. Undulation, honey combs, voids and blow holes are to be rendered smooth with **Hind Polymer mortars**. If fine cracks are identified, it is to be grouted with **Hind ERS 21/Hind ERS 21 (LV)** epoxy resin system. Application to be done only on dry surface.

APPLICATION

Prior to application of **Hind Hydroflex Polyurea (P)**, it is recommended that the surface to be primed with **Hind PU Primer @ 0.2-0.3 Kg/m²**. It is always advisable that proper high pressure spray pump (**GRACO make**) is used for application of **Hind Hydroflex Polyurea (P)** as per the following guidelines:

| | |
|------------------------|-----------------|
| Output Pressure | Up to 3500 psi |
| Minimum Spray Pressure | 1800 - 2500 psi |
| Temperature Setting | 60 °C - 70° C |
| Hose Temperature | 60 °C - 70° C |

PROPERTIES

| | |
|--------------------------------|-------------------|
| Solid Content | 100% |
| Density at 25 ^o C | 1.1- 1.2 Kg / Ltr |
| Mix Ratio (By volume) | 1: 1 |
| Viscosity at 25 ^o C | 300-1500 cps |
| Tensile Strength | 20 Mpa |
| Elongation | > 300% |
| Tear Strength N/mm | 90 |
| Hardness (Shore A) | 90-100 |
| Tack free time (T.F.T) | 5-15 seconds |
| Trafficable (Light) | 3-5 minutes |
| Fully Serviceable | 12 hours |

THICKNESS

Minimum dry film thickness of 1.5 mm is achieved @ 1.8 Kg/m². We recommend 2 mm thickness for waterproofing and chemical resistance and 3mm thickness for heavy duty abrasion resistance.

PACKING

Available Pack A in 210 Kg & Pack B in 200 Kg Container.

STORAGE

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

HANDLING PRECAUTION

Hind Hydroflex Polyurea (P) is non-toxic. Wearing of Hand gloves, mask, shoes and Safety goggles is a must while using and handling the product.

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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