HIND HYDROFLEX POLYUREA (H)

PRODUCT DATA SHEET
TWO COMPONENT, CHEMICAL RESISTANT, RAPID CURING POLYUREA BASED WATERPROOFING MEMBRANE

DESCRIPTION

Hind Hydroflex Polyurea (H) is two component, chemical resistant, rapid curing polyurea based waterproofing membrane. It contains 100% solid, pre-heated and spray applied rapid curing elastomeric waterproofing membrane and has excellent resistant to wide range of common chemicals.

USES

Hind Hydroflex Polyurea (H) is recommended as a waterproofing and protective coating for structures that are exposed to wide range of aggressive chemical and environmental conditions. Typical applications include Potable Water tanks, Water Retaining structures, Underground Structures, Foundation walls and sumps, and Bridge Deck waterproofing etc.

ADVANTAGES

- It is Moisture Insensitive and Rapid Curing.
- It forms seamless membrane.
- UV Resistant.
- 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 ⁰C to + 200 ⁰C)
- 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 (H), 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 (H) as per the following guidelines:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output Pressure</td>
<td>Up to 2000 psi</td>
</tr>
<tr>
<td>Minimum Spray Pressure</td>
<td>1600 - 1800 psi</td>
</tr>
<tr>
<td>Temperature Setting</td>
<td>60 ⁰C</td>
</tr>
<tr>
<td>Hose Temperature</td>
<td>50 ⁰C - 55 ⁰C</td>
</tr>
</tbody>
</table>
PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid Content</td>
<td>100%</td>
</tr>
<tr>
<td>Density at 25°C</td>
<td>1.1 - 1.2 Kg / Ltr</td>
</tr>
<tr>
<td>Mix Ratio (By volume)</td>
<td>1:1</td>
</tr>
<tr>
<td>Viscosity at 25°C</td>
<td>400-1000 cps</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>19 Mpa</td>
</tr>
<tr>
<td>Elongation</td>
<td>&gt; 400%</td>
</tr>
<tr>
<td>Tear Strength N/mm</td>
<td>55</td>
</tr>
<tr>
<td>Hardness (Shore A)</td>
<td>85-95</td>
</tr>
<tr>
<td>Tack free time (T.F.T)</td>
<td>5-15 seconds</td>
</tr>
<tr>
<td>Trafficable (Light)</td>
<td>3-5 minutes</td>
</tr>
<tr>
<td>Fully Serviceable</td>
<td>12 hours</td>
</tr>
</tbody>
</table>

THICKNESS

Minimum dry film thickness of 1.5 mm is achieved @ 1.8 Kg/m². The thickness of the membrane may vary depending on the application process.

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 (H) 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 suit 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 results shown here are generated from our laboratory or from our site experiences.
- Qualities 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.

HINDCON CHEMICALS LIMITED
(Formerly HIND SILICATES PVT. LTD)
(AN ISO 9001: 2008 COMPANY)

Office
62B, Braunfeld Row, “VASUDHA”, Kolkata - 700027
Tel: 24490835, 24490839, Fax: 24490849
E-mail: contactus@hindcon.com, hindconchemicals@yahoo.com

Factory
Baniyara, Jalan Complex, Gate No.3
Howrah – 711 411. Tel: 2669 9213
www.hindcon.com