

# HIND HYDROFLEX POLYUREA (H70)

TWO COMPONENT HAND APPLIED POLYUREA BASED HYBRID MEMBRANE



## DESCRIPTION

**Hind Hydroflex Polyurea (H 70)** is a two component solvent free, self levelling, hand applied elastomeric hybrid polyurea membrane designed for use in variety of concrete waterproofing applications including podium decks, terraces and car parking decks. It can also be used for roof waterproofing where fire retardant coating is not required.

## USES

It can be used as follows:

- General waterproofing on roofs, terraces, balconies, car parking decks and podium etc.
- Factories, Parking Lots and Hospital.

## ADVANTAGES

- Two Component solvent free and can be applied by hand.
- Possess excellent mechanical properties.
- Fully bonded.
- Thermoset- does not make it soften at elevated temperatures.
- No laps and seamless on application.
- Excellent crack bridging properties.
- Resistant to puncture.

## APPLICATION

**Hind Hydroflex Polyurea (H 70)** is supplied to working site which are pre-packed in the exact ratio. Before mixing both the components A&B to be preconditioned to a temperatures ranging approximately between **20 to 28°C**.

### Surface Preparation

The substrate preparation and use of appropriate primer have paramount importance. All surface should be sound, absolutely clean and dry and free from all containments such dirt, oil, grease and any type of coating.

### On Plywood

All joints should be flushed and taped prior to application of primer.

### On Iron/Steel

The surface should be sand blasted to a **Sa 2 ½** finish prior to primer application.

### On Concrete

Concrete and other cementitious substrates must have a minimum pull off strength of  $1.5 \text{ N/mm}^2$ . Any laitance present on the surface must be removed mechanically. Shot blasting is the preferred method. Any shot of mould release oil or other containments which will affect the adhesion must be removed prior to application of primer.

### On Asphalt

For roof application, the asphalt should be cleaned with high pressure water jetting. In mechanically stressed applications the load bearing capacity of the asphalt should be suitable for the intended use and should be shot blasted so that at least 60% of the surface aggregate is exposed. Blister formation to be warmed, redressed and a de bonding tape applied over it before application of primer.

## Application

**Hind Hydroflex Polyurea (H 70)** is poured over the prepped substrate and spread all over with a notched trowel or spreader. The curing of the products is influenced depending on the ambient, material and substrate temperatures.

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## PROPERTIES

Density g/cc at 25°C	Part A : 1.10 $\pm$ 0.1, Part B : 1.30 $\pm$ 0.1
Viscosity cps at 25°C	Part A : 600 $\pm$ 200, Part B : 1900 $\pm$ 200
Volume –Mixing Ratio	1:1
Gel Time	20 $\pm$ 5 minutes
Tack Free Time	90 to 150 minutes
Shore A Hardness	85-90
Tensile Strength	>10 N/mm <sup>2</sup>
Elongation	> 350%
Crack Bridging	2mm
Post Curing Time	4-7 days
Water Absorption (After 7 days curing at 23°C/60%, 168 hours)	<2.5 %
Alkali Resistance Tensile Elongation (%) Retention After 7 days curing at (23°C/60%), [0.1%NaOH + saturated Ca (OH) <sub>2</sub> in water, 168 hours]	85% -95%
Acid Resistance Tensile Elongation (%) Retention After 7 days curing at (23°C/60%), [2 % H <sub>2</sub> SO <sub>4</sub> in water, 168 hours]	82% - 93%

## COVERAGE

Consumption is depended on the application process. For **1mm thick film** approximate consumption is **1.32 Kg/Sq. Mtr.**

## PACKING

Available in **10 Kg & 20 Kg working packs.**

## STORAGE

Best before **12 months** in original unopened container stored indoor at a temperature ranging **between 15°C to 30°C.**

## HANDLING PRECAUTION

**Hind Hydroflex Polyurea (H 70)** is non-toxic. Wearing of Hand gloves, mask, shoes and Safety goggles is a must while using and handling the product.

## 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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