

# HIND HYDRO FLEX PU (BM)

TWO COMPONENT BITUMEN MODIFIED POLYURETHANE  
ELASTOMERIC WATERPROOFING COATING



## DESCRIPTION

**Hind Hydro Flex PU (BM)** is two component moisture cured bitumen modified polyurethane elastomeric waterproofing membrane for exterior below grade or between slab applications. It enhances the protection of water penetration into structure. Being an elastomeric coating it permits expansion and contraction of the substrate. Due to its wide service temperature range it becomes suitable for all climates. It resist bacterial attack many acids , alkalis and salts. It forms a seamless membrane and hence eliminates overlapping, seaming and pre-cutting. **It conforms to ASTM C 898.**

## USES

**Hind Hydro Flex PU (BM)** is recommended for use above grade between two course concrete and within cavity walls, exterior below grad on masonry, concrete, incidental metal, parking lot, garages, plaza decks, malls, fountains , pools , balconies, planters, bridges and highways, below grade slab walls and culverts, sea walls, dams and reservoirs, concrete tanks and exterior plywood.

## ADVANTAGES

**Hind Hydro Flex PU (BM)** coating offers as follows:

- Good weather resistance.
- Excellent adhesion to concrete, stone, wood, brick, FRP and metal surfaces.
- Good abrasion & chemical resistance.
- Does not support bacterial growth.
- Seamless membrane formed on application.
- Frost & Water resistant.

## APPLICATION

Surface over which the coating is to be applied should be structurally sound,lightly steel troweled to a flat, uniform surface. A Light Broom finished surface is also acceptable. New Concrete should be water cured for at least 14 days. If any membrane or curing compounds exist on the surface it should be completely removed. For extreme porous surface a primer coat of **Hind Prime PU** may be required. The surface should be clean, dry, free from loose particles, oil, laitance and other containment before application. Air void pockmarks or honey combs must be opened up to allow **Hind Hydro Flex PU (BM)** to fill cavities completely. Air entrapment to be avoided while coating may cause blisters and it should be taken care of.

Before applications of the final membrane , all joints ,cracks and opening around protrusions must be sealed by caulking or prestripping ( a preliminary coating of **Hind Hydro Flex PU (BM)** applied with a trowel or stiff bristle brush) The coating to be allowed to dry overnight before applying final membrane. After application of the final membrane the overall thickness over joints and cracks , at coves and around penetrations should be approximately 100 wet mils (2.5mm)

## PHYSICAL PROPERTIES (Mixed)

Mix Ratio (A:B)	75:25 by weight
Color	Black

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Shore A hardness	30-40
Tensile Strength	>10 Kg/cm <sup>2</sup>
Elongation	>600% (Pure material)
Density after mixing	1.20 to 1.25
Swelling in water (5 Days)	Nil
Service temperature range	-40 to 60°C

## PROPERTIES Part A (Base)

Viscosity	20,000 to 30,000 cps
Density	1.3 to 1.4
Non Volatile Content	> 80%

## PROPERTIES Part B (Hardener)

Viscosity	10,000 to 20,000 cps
Density	0.9 to 1.0
Non Volatile Content	> 98%

## COVERAGE

1.4 to 1.6 kg per m<sup>2</sup> for 1 mm thickness in case of smooth surface depending on site conditions.

## PACKING

Hind Hydro Flex PU (BM) is available in **15Kg (Part A-Base) & 5Kg (Part B- Hardener)** Container.

## STORAGE

**Best Before 6 months** in original unopened container. The area of storage shall be covered protecting the material from direct sunlight. Do not expose or open container to high humidity conditions and stored in a cool and dry place.

## HANDLING PRECAUTION

Hind PU Masterflex is non-toxic and ingestion is to be avoided. 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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