WATERPROOFING WORK AT
ROOF, TERRACE, MUMTY, LIFT MACHINE ROOM SLAB & FIRE REFUGE SLAB USING HIND HYDRO FLEX PU (BM)

APPLICATION INSTRUCTIONS

STEP - 1

SURFACE PREPARATION

1. The surface must be made sound and free from dust, dirt, and loose particles by thoroughly wire-brushing it.
2. If required, a grinder may be used. Clean the dust with a vacuum cleaner.
3. Wash the surface with water. Oils and grease must be removed by degreasing solvent.
4. **Crack Repair (If Required):** If any damage or existing cracks are found on the surface, repair by cutting a **1" V groove** and filling with **'Hind Patch R' Fiber Reinforced Repair Mortar (1 Kg Patch-R : 160 gm Water)** over a bond coat of **'Hind Styrene BR'** admixed with water and cement in the ratio of **(1 part Hind Styrene BR : 1 part Water : 3 parts Cement).**
5. **Chamfering (If Required):** Chamfer all junctions of the mother concrete slab and brick walls with **HIND CRETE PLUS WPM** modified cement sand mortar at the ratio of (1 part cement : 4 parts sand : WPM 5–10% weight of cement) after cutting a groove of size 25mm x 25mm.
6. **Pipe Inserts (If Required):** All pipe inserts in floors and walls should be properly sealed with **HIND HSMC (1 Kg HSMC : 160 gm water)** over a bond coat of epoxy bonding agent **HIND BOND EBA** modified cement sand mortar.
1. **New Concrete Curing:** New concrete should be water cured for at least 14 days. The surface should be structurally sound and lightly steel troweled to a flat, uniform finish. A light broom-finished surface is also acceptable.
2. Any membrane or curing compounds existing on the surface must be completely removed before application.
3. Air void pockmarks or honeycombs must be opened up to allow **Hind Hydro Flex PU (BM)** to fill cavities completely. Air entrapment must be avoided during coating as it may cause blisters.

STEP - 2

PRIMING - HIND PRIME PU

Application Procedure

1. **Hind Prime PU** is a ready-to-use, single component product — no mixing is required.
2. Apply **Hind Prime PU** in a single coat over the clean and dry surface using a brush or roller, ensuring uniform and complete coverage.
3. Apply at a coverage rate of 0.150 L / m^2 for 50 microns thickness.
4. **Curing:** Allow the primer to air cure for 5–6 hours at 27°C ± 2°C. Touch dry in 3–4 hours, tack free in 7–8 hours, hard dry in 24 hours. The cured surface is then ready for application of the **Hind Hydro Flex PU (BM)** membrane.

STEP - 3

WATERPROOFING MEMBRANE — HIND HYDRO FLEX PU (BM)

Mixing Procedure

1. **Hind Hydro Flex PU (BM)** is supplied as a two-component kit — Part A (Base, 15 Kg) and Part B (Hardener, 5 Kg).
2. Mix Part A (Base) and Part B (Hardener) in the ratio of 3:1 by weight using a slow-speed mechanical stirrer until a uniform, homogeneous, lump-free mixture is obtained.
3. Mix only the quantity that can be applied within the working time. Do not mix excess material that cannot be used promptly.

Pre-Stripping of Joints, Cracks & Penetrations

1. **Mandatory Pre-Treatment:** Before application of the final membrane, all joints, cracks, and openings around protrusions (pipes, drains, etc.) must be sealed by caulking or pre-stripping — applying a preliminary coating of **Hind Hydro Flex PU (BM)** with a trowel or stiff bristle brush over these areas.
2. Allow the pre-stripping coat to dry overnight before applying the final membrane coat.
3. **Overall Thickness at Joints:** After application of the final membrane, the overall thickness over joints, cracks, at coves, and around penetrations should be approximately (2.5mm).

Application Procedure — Final Membrane

4. Apply the mixed **Hind Hydro Flex PU (BM)** uniformly over the prepared (and primed, if applicable) surface using a roller, brush, trowel, or squeegee as appropriate to the application area.
5. Apply at a coverage rate of 1.4 to 1.6 Kg per m^2 for 1mm thickness on a smooth surface, depending on site conditions and surface texture.
6. The product forms a seamless membrane on application, eliminating the need for overlapping, seaming, or pre-cutting of sheets.
7. Apply in a continuous, uniform film, ensuring complete coverage with no pinholes, thin spots, or missed areas, particularly at upturns, parapets, and drain outlets.
8. **Service Range:** The cured membrane is elastomeric, permitting expansion and contraction of the substrate, and is suitable for service temperatures ranging from 0°C to +60°C.
9. Protect the applied membrane from rain, water, and traffic until fully cured.

IMPORTANT NOTES:

1. **Hind Hydro Flex PU (BM)** offers good weather resistance, excellent adhesion to concrete, stone, wood, brick, FRP, and metal surfaces, and does not support bacterial growth.

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2. The system is frost and water-resistant with good abrasion and chemical resistance, suitable for roofs, terraces, planters, plaza decks, and below-grade applications.
3. **Overlay Requirement:** Overlay (such as tiling, screed, or pavers) above the membrane, provide either **Hind Bond 1707+** as a bonding agent (applied in tacky condition before the overlay) or a Geo textile Membrane of minimum 120 GSM as a separation layer before the overlay. An overlay is required since the material is not UV-resistant.
4. Store in a cool, dry place away from direct sunlight. Do not expose or open containers to high humidity conditions. Shelf life is 6 months in original, unopened containers.
5. **Hind Prime PU** and **Hind Hydro Flex PU (BM)** are non-toxic; avoid ingestion. In case of eye contact, wash well immediately with water and seek medical advice.

MATERIAL COVERAGE SUMMARY

Product / Layer	Pack Size	DFT / Thickness	Coverage
Hind Prime PU (If Required)	5 / 20 Ltr Container	50 Microns	0.150 L / m^2
Hind Hydro Flex PU (BM)	15 Kg (Part A) + 5 Kg (Part B)	1.0mm	1.4–1.6 Kg / m^2
Mix Ratio (A : B)	–	3 : 1 by Weight	–
Pre-Stripping at Joints / Cracks	–	2.5mm	–

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