

# WATERPROOFING WORK AT ROOF, TERRACE, MUMTY, LIFT MACHINE ROOM SLAB & FIRE REFUGE SLAB USING HIND HYDRO PROOF

## 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.

### STEP - 2

#### PRIMING - HIND BITKOTE

1. Before application, stir the contents of Hind Bitkote thoroughly to obtain a uniform consistency and homogeneity.
2. The concrete substrate must be cleaned with a wire brush and must be free from dust, algae, oil, grease, contaminants, and loose particles.
3. Apply Hind Bitkote uniformly over the prepared surface as a primer coat by brush, ensuring complete and even coverage with no missed spots.
4. Apply a coat of primer, either Hind Bitkote (WB) or Bitkote (OB).
5. In case of Hind Bitkote (WB), dilute with water before application in the ratio 1:1 and apply by a squeeze.
6. Hind Bitkote (WB) can also be applied on a moist surface @ 300 gm/m<sup>2</sup> of diluted materials unlike Hind Bitkote (OB).
7. Hind Bitkote should be applied by a squeeze on the dry surface 300 gm/m<sup>2</sup>.
8. **Drying Time:** Touch dry in 6 hours at 27°C.
9. **Curing before membrane:** Allow the primer to achieve hard dry before commencing torch application of Hind Hydro Proof APP Membrane, within 24 hours of application of the primer to avoid dust accumulation.

### STEP - 3

#### WATERPROOFING MEMBRANE - HIND HYDRO PROOF

1. Confirm the Hind Bitkote primer coat has dried fully and is ready to receive the membrane before commencing application.
2. Hind Hydro Proof is installed by torch bonding using a suitable gas torch.
3. Position the membrane roll at the starting point and unroll partially to align it correctly with the surface and previous laps.
4. Apply the torch flame to the underside of the roll while unrolling it slowly and steadily across the primed surface.
5. **Torch Control:** The torching must be controlled to ensure only the PE film is melted and the asphalt coating is sufficiently softened to bond the membrane to the substrate. Excessive heating can damage the membrane and reduce its performance.
6. Direct the torch flame between the lower part of the roll and the substrate, maintaining a consistent unrolling speed for uniform bonding.
7. **Side Laps:** Provide overlaps of 75 to 100 mm for side laps. These overlaps must be torched and sealed to ensure complete bonding.
8. **End Laps:** Provide overlaps of 150 mm for end laps. These overlaps must be torched and sealed to ensure complete bonding.
9. **Angles and Abutments:** All angles, up stands, and abutments must be sealed with extra care to ensure full bondage and complete waterproofing integrity at these critical junctions.
10. Seal the edges of the membrane into grooves cut at terminations and protect with a suitable sealant.
11. Ensure the entire membrane surface is uniformly bonded to the substrate with no air pockets, voids, or loose areas.
12. **Geo textile Separation Layer:** A Geo textile Membrane of minimum 120 GSM must be provided over the completed Hind Hydro Proof membrane for any type of overlay (such as screed, tiling, or protective concrete) to be applied above it. This layer acts as a separation/protection membrane, preventing damage to the waterproofing membrane during overlay works.
13. A coat of Hard Bitumen 8.5/2.5 @ 1.2 kg per m<sup>2</sup> is suggested if no over clay is applied for greater membrane durability.

#### IMPORTANT NOTES:

1. The Hind Hydro Proof membrane provides a 100% water impermeable surface with excellent UV, tear, and puncture resistance.
2. Overlay with desired finish (such as tiles, screed, or protective coating) is possible over the completed membrane as required.
3. Application must be carried out by trained applicators experienced in torch-applied membrane systems, with appropriate fire safety precautions in place.
4. Store membrane rolls in a cool, dry place away from direct sunlight between 2°C and 35°C. Shelf life is 12 months from the date of manufacture. Stacking of Hind Hydro Proof should be done with the Rolls stacked vertically.
5. Hind Bitkote is non-toxic; avoid ingestion. In case of skin contact, wash immediately with water. In case of eye contact, wash with water and seek medical advice.

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## MATERIAL COVERAGE SUMMARY

Product / Layer	Pack Size	DFT / Thickness	Coverage
Hind Bitkote (Primer) - 2 Coats	As Required	250 Microns DFT	300 gm / m <sup>2</sup>
Hind Hydro Proof	10 x 1 Mtr Roll	3mm-4mm	9 m <sup>2</sup> / Roll
Hind Hydro Proof (P160 / P180 / Fg050)	10 x 1 Mtr Roll	3 / 4 mm	9 m <sup>2</sup> / Roll
Side Lap Overlap	-	-	75-100 mm
End Lap Overlap	-	-	150 mm
Geotextile Membrane (Before Overlay)	As Required	Min. 120 GSM	As Required

