

# HEATPROOFING & WATERPROOFING WORK

## ROOF, MUMTY, TERRACE, LIFT MACHINE ROOM SLAB, USING HIND COOL COAT

### 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 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:** 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 BONDE EBA modified cement sand mortar.

#### STEP - 2

##### MIXING

1. Mix **Hind Cool Coat** thoroughly with a flat stirrer or mechanical mixer before use to ensure uniform dispersion of ceramic particles.
2. **Hind Cool Coat** does not normally need to be thinned. If thinning is considered necessary, add up to 10% clean water only.
3. For airless spray application, thin with up to 10% clean water to aid atomization.
4. **Pre-wet equipment:** Pre-wet all brushes and rollers with clean water before use to avoid clogging.

#### STEP - 3

##### FIRST COAT - HIND COOL COAT

1. Apply the first coat of **Hind Cool Coat** straight from the container using a pre-wetted brush or roller, or by airless spray equipment.
2. **For airless spray:** use a tip orifice of 0.5 micrometers or larger. Apply in two even, uniform passes to achieve consistent coverage.
3. Apply uniformly across the entire surface at a coverage rate of 4.0 sq. ft. per kg per coat to achieve the required film thickness.
4. Ensure complete and even coverage with no missed areas or thin spots.
5. **Do not apply:** If the ambient temperature is below 10°C or above 35°C, or if high humidity, rain, or dew is present or anticipated, as **Hind Cool Coat** will not cure properly under these conditions.
6. **Curing check:** If **Hind Cool Coat** is not dry within one hour of application, cease coating immediately and investigate the cause before proceeding.
7. **Recoating time:** Allow the first coat to dry for at least 2 hours at 25°C before applying the second coat.

#### STEP - 4

##### SECOND COAT - HIND COOL COAT

1. Confirm the first coat has dried for at least 2 hours before applying the second coat.
2. Apply the second coat of **Hind Cool Coat** uniformly over the first coat using a pre-wetted brush, roller, or airless spray in the same manner as the first coat.
3. Apply at a coverage rate of 4.0 sq. ft. per kg per coat to achieve the required film build.
4. **Total DFT:** The two-coat system must achieve a minimum Dry Film Thickness of 300 microns (0.3 mm). Ensure adequate material is applied per coat to meet this requirement.
5. Protect the coated surface from rain, water, and damp conditions during the drying period.
6. **Drying time:** Surface dry in approximately 30 minutes at 25°C. Allow full drying before subjecting the surface to any traffic, water, or service conditions.

#### IMPORTANT NOTES

1. Where the application area is used for the collection of drinking water, downpipes should remain open until the area has received two or three rinses with rainwater after application.
2. Do not apply in direct sunlight on very hot surfaces - cool the surface with water before application if necessary.
3. **Hind Cool Coat** is water-based, non-toxic, and non-flammable. Clean all tools and equipment with clean water immediately after use.
4. Any splashes to the skin must be washed with water. In case of eye contact, wash immediately with water and seek medical advice.
5. Store 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 in sealed, unopened containers.
6. Available in packing sizes of 1, 4, 10, 20 Kg in HDPE containers.

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### STEP -5

#### THIRD COAT - HIND COOL COAT (OPTIONAL - ENHANCED PROTECTION)

**Note:** A third coat is optional and recommended for areas requiring enhanced waterproofing, maximum solar reflectivity, or additional durability. The third coat is applied crosswise to the second coat (in the opposite direction).

1. Confirm the second coat has dried fully (minimum 2 hours) before applying the third coat.
2. Apply the third coat of **Hind Cool Coat** uniformly over the second coat using a pre-wetted brush, roller, or airless spray.
3. **Direction:** Apply the third coat in the opposite or crosswise direction to the second coat to ensure complete coverage and uniform film build.
4. Apply at a coverage rate of 4.0 sq. ft. Mtr / Kg / coat.
5. **Total DFT with 3 coats:** Minimum 450 microns (0.45 mm), providing enhanced waterproofing and thermal insulation performance.
6. Protect the coated surface from rain and water until fully dried.
7. **Drying time:** Surface dry in approximately 30 minutes at 25°C.

#### MATERIAL COVERAGE SUMMARY

Product / Layer	Pack Size	DFT / Thickness	Coverage
Hind Cool Coat - 1st Coat	1 / 4 / 10 / 20 Kg	Min. 150 Microns	4.0 Sq. Mtr / Kg
Hind Cool Coat - 2nd Coat	1 / 4 / 10 / 20 Kg	Min. 150 Microns	4.0 Sq. Mtr / Kg
Hind Cool Coat - 3rd Coat (Optional)	1 / 4 / 10 / 20 Kg	Min. 150 Microns	4.0 Sq. Mtr / Kg
Total DFT - 2 Coats	—	Min. 300 Microns (0.3 mm)	—
Total DFT - 3 Coats (Optional)	—	Min. 450 Microns (0.45 mm)	—
Recoating Time	—	2 Hours between coats	—

