

WATERPROOFING WORK AT SWIMMING POOL USING HIND ELASTO COAT

APPLICATION INSTRUCTIONS

STEP - 1

SURFACE PREPARATION

1. The surface must be made sound & free from dust, dirt, & 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 & grease must be removed by degreasing solvent.
4. If any damage or cracks are found, repair them by cutting a 1" V-groove and filling it 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 (1 part Hind Styrene BR: 1 part Water: 3 parts Cement).
5. Chamfering all junctions of the mother concrete slab & 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. All pipe inserts in floors & 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

NOZZLE GROUTING

1. Fixing PVC nozzles all along the construction joints @ 800 mm c/c on the wall and @ 1000 mm c/c in a grid pattern on the base slab, grouting for injection of cement slurry admixed with Expanding grout Admixture HIND PLAST EGA (0.5 to 0.6 kg per 100 kg cement and w/c ratio 0.36 to 0.4).
2. Identification of the honeycomb area, if any, apart from the Construction Joints and fixing additional. PVC Nozzles for Injection Grouting.
3. Pressure Injection Grouting by means of a pressure pump applying pressure @ 2.5Kg/cm² with Cement Slurry admixed with 'Hind Plast EGA'- Non Shrink Grouting Compound through the PVC Nozzles fixed and properly sealing them after grouting work is completed.
4. After the grouting operation is over, the PVC Nozzles fixed are cut off from the edge and sealed it with cement sand mortar (1:3) admixed with HIND SHOT SET-P (5% weight of cement)

STEP - 3

WATERPROOFING COATING

1. Supplying and applying three coats of waterproof coating 'HIND ELASTO COAT' - a high-performance single-component acrylic-based, highly flexible, non-toxic elastomeric waterproofing slurry coating 2.0 kg/sq.mtr on the prepared surface on the entire floors & walls. Consumption is approx. 1kg/Mtr on a smooth surface in three (3) coats, for a Dry Film Thickness (DFT) of 1.5 ± 0.1 mm on average. The coverage depends on the surface texture and porosity. Consumption may vary depending on the surface and its absorption. All substrates should be in SSD condition prior to using HIND ELASTO COAT.

Watering the entire Surface up to Saturated Dry condition (SSD). Providing and placing water-proofing membrane by a high-performance single-component, highly flexible, acrylic polymer based non-toxic elastomeric waterproofing slurry by application of 1st coat HIND ELASTO COAT is mixed with clean Water in the proportion of 1:1 (1 part i.e. 0.250 kg Hind elasto coat : 1 part i.e. 0.250 kg clean Water) and painted on the prepared surface with a flat paint brush @ 0.500 Kg/Sq. Mtr. of the diluted mixture and taken to the height of the entire Wall.

Application of the 2nd coat of HIND ELASTO COAT is applied without any dilution on the surface with a paint brush @ 0.875 Kg/Sq. Mtr. when the 1st coat of diluted HIND ELASTO COAT is touch dry, approximately after 4 hours of the 1st coat.

Application of the 3rd coat of HIND ELASTO COAT is applied after a minimum time interval of 10 hours without any dilution with a paint brush @ 0.875 Kg/Sq. Mtr.

2. Glass fiber wire mesh should be placed on the 1st coat, till the coating is in a wet condition.
3. Allow the surface to dry.
4. After getting 1st coat completely dried 2nd coat should be applied to make a sandwich coating system.
5. After getting the 2nd coat completely dried, the 3rd coat should be applied.

STEP - 4

BONDING AGENT

1. After that, apply HIND BOND 1707+, a low-viscosity solvent-free high-strength two-component epoxy bonding compound, with a brush over a cleaned, dirt-free surface free of all types of loose particles, oil, grease, or other foreign materials, and dry the existing surface. Apply a thin layer of Hind Bond 1707+ pre-weighed Pack-A with Pack-B, preferably using a low-speed electric drill/paddle, for 2-3 minutes to thoroughly stir, then brush onto the existing surface, working well into the substrate.
2. In case of using large packs, when the entire mixed quantity cannot be used at a time, contents of Pack A and Pack B are to be mixed in the ratio 2:1 by weight and consumed within 30 minutes. HIND BOND 1707+ will cover at the rate of 0.25-0.4 kg/ sq.mtr, depending upon the surface porosity, texture, and working temperature.

PROTECTIVE PLASTER (ONLY WALL)

1. After application of HIND BOND 1707+ coating when it is still "TACKY" HIND ELASTO COAT Coating will be then covered with 15 mm thick (1:4) cement sand plaster admixed with HIND PLAST IWA (100ml for 50kg cement) & HIND PP FIBER (125gm for 50kg cement).

OR

PROTECTIVE SCREED (FLOOR)

1. After application of HIND BOND 1707+ coating when it is still "TACKY," HIND ELASTO COAT Coating will then be covered with providing and laying of 75mm average thick screed concrete (1:2:4) in proper slope with HIND PP FIBER (125gm for 50kg cement) & HIND PLAST IWA (100ml for 50kg cement).

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