

# WATERPROOFING WORK AT OVERHEAD TANK, LIFT PIT AREA, UNDERGROUND RESERVOIR, BASEMENT, FIRE WATER TANK, SEWAGE TREATMENT PLANT, RAIN WATER HARVESTING TANK USING HIND CRETE PLUS WPM

## 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 existing crack are found on the surface, to be repaired by cutting **1"- V groove** and filling the same using **'Hind Patch R'- Fiber Reinforced Repair Mortar(1kg Patch-R:160 gm water)** over a bond coat of **'Hind Styrene BR'** admixed with water & cement in the ratio of **(1 part Hind Styrene BR: 1 part Water: 3 Parts Cement)**.
5. 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 grid pattern on the base slab, grouting for injection of cement slurry admixer 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/cm<sup>2</sup> 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 with cement sand mortar (1:3) admixed with **HIND STYRENE BR** modified (5-10%) weight of cement.

### STEP - 3

#### WATERPROOFING COATING

1. Supplying and applying one coat of waterproof coating **HIND SBR LATEX (1 part Hind Styrene BR: 1 part Water: 3 Parts Cement)** on the prepared surface on the entire floors & walls.
2. Supplying and applying two coats of waterproof coating **HIND CRETE PLUS WPM**, which is to be mixed with cement in the ratio **1:2. (1 part HIND CRETE PLUS WPM & 2 parts Cement)** on the prepared surface on the entire floors & walls. Consumption of the product (**HIND CRETE PLUS WPM**) is approximately 1kg/Sq. Mtr. with fibre mesh in two coats. The consumption may vary depending on the surface and absorption of the surface. All substrates should be in SSD condition prior to using **HIND CRETE PLUS WPM**.
3. Glass fibre wire mesh should be placed on the 1st coat until the coating is wet.
4. Allow the surface to dry.
5. After the 1st coat is completely dry, apply the 2nd coat to create a sandwich coating system.
6. Dry sand has to be sprinkled on the coated surface until the 2nd coat is in a tacky condition to provide a key for the subsequent plaster.

### STEP - 4

#### PROTECTIVE PLASTER (ONLY WALL)

1. Application of 1:2:2 Stone plaster for a thickness of 15 - 20 mm in the ratio (1 part Cement: 2 parts Sand: 2 parts 6mm stone Aggregate), admixed with **HIND PLAST IWA (100ml for 50kg cement) & HIND PP FIBER (125gm for 50kg cement)**, followed by a neat cement finish over the plastered surface when it is green.

OR

#### PROTECTIVE SCREED (FLOOR)

1. Providing and laying of 75mm average thick screed concrete (1:2:4) in proper slope with **HIND PLAST IWA (100ml for 50kg cement) & HIND PP FIBER (125 gm for 50 kg cement)** followed by neat cement finish over the plastered surface when it is green.