

# NITOPROOF 600 STANDARD

## APPLICATION METHODOLOGY

### 1. SURFACE PREPARATION:

- Ponding test to find out any leaking points
- First Ponding Test to be on Mother Slab
- All the surfaces which are to receive **NITOPROOF 600 Standard** coating must be free from oil, grease, wax, dirt or any other form of foreign matter which might affect adhesion and dry condition.

### 2. PRESSURE GROUT

- a) Identify the cracks on Concrete surface and chasing open in the form of “V” groove 6mm x 6mm and fixing PVC nozzles at 1.0M c/c or as per site condition. Fill the “ V “groove with Polymer modified mortar and
- b) Pressure grouting where ever necessary at honey comb are by cement slurry admixed with **Cebex 100**,expandable grout additive @ 225gms per bag of cement of 50 kg at a pressure of 2 to 4kg/cm<sup>2</sup>

### 3. COVING (Where ever necessary)

- a) Coving: Laying at all the junction of vertical and Horizontal junctions / offsets with Cement Mortar 1:4 and admixed with Nitobond SBR at dosage of 1L per bag of Cement

### 4. BORE PACKING INLET / OUT LET PIPES (where ever required)

#### Surface Preparation

- 1) Preparing the inside surface of core and PVC by roughening using suitable sand paper to get better adhesion prior to packing works.

- 2) Cleaning the surface by wire brushing followed water jet to remove any laitance or loose flaky particles.

#### **Pre-soaking**

- 1) Several hours prior to placing, the concrete substrates should be saturated with fresh water. Immediately before grouting takes place any free water should be removed with particular care being taken to blow out all Bore pockets.

#### **Bonding agent**

- 1) Applying a coat of styrene- butadiene based polymer coating using **Nitobond SBR** to enhance adhesion between the packing material and other surfaces.

#### **Formwork - general**

- 1) Before fixing any formwork, ensure that the area to be grouted is clean.
- 2) The formwork itself must be constructed to be leak-proof, to prevent any possible grout loss. This can be achieved by using Renderoc plug or any suitable material at all joints in the formwork.
- 3) Formwork has to be undisturbed for a minimum of 24 Hrs before stripping.

#### **Mixing**

- 1) For best results a mechanically powered grout mixer should be used. When quantities up to 50kg are used, a heavy duty slow speed drill (400-500 rpm) fitted with a paddle is suitable. Larger quantities will require a heavy duty mixer.

#### **Consistency of grout mix**

- 1) The quantity of clean water required to be added to a 25kg bag to achieve the desired consistency is given: Flowable: 4.500 litres.

#### **Curing**

- 1) Curing shall be as regular practice for concrete member.

#### **2. APPLICATION OF PRIMER:**

Priming is not be required for Nitoproof 600 Standard .

#### **3. MIXING**

**NITOPROOF 600 Standard** is supplied in a CAN / DRUM Pack of 20 Ltr, as a single component, which does not require any mixing as site level the supplied product is ready to use, however the supplied CAN / DRUM still need homogeneous mixed liquid hence, the stirrer using slow speed is used before ready to use on substrate.

#### 4. APPLICATION SEQUENCES

- a) First Ponding Test on mother slab.
- b) Surface preparation by manual means to remove laitance, loose particles which may hinder bond strength of the waterproofing system and application substrate shall be completely dry surface.
- c) Application method by Squeezes using **Nitoproof 600 Standard** at 1.3 mm thick.
- d) Termination Details at 300mm height on parapet wall by providing Groove of 10mm x 10mm tugging the Nitoproof 600 Standard at that level and fill the groove with PMM.
- e) **Nitoproof 600 Standard** membrane must be cured for a minimum of 24 hours which shall be of SELF CURING, before placing any subsequent layer.
- f) Second Ponding Test after Treatment
- g) Providing, batching, mixing, transporting through transit mixers, pumping and laying controlled Screed Concrete of M20 grade at all levels and heights specified below
- h) ordinary Portland cement of grade 53 from approved manufacturer, river sand, 12mm and down size coarse aggregates, necessary admixtures approved by Consultants including all leads and lifts, pumping using line pump or boom placer, vibrating/ compaction, scaffolding wherever necessary, curing as directed at all heights and depths as instructed. Cost to include providing & mixing Graded fibrillated 100% virgin poly propylene fibres in concrete at the rate of 0.90 kg/cum as per manufacturers specifications, to smooth finish and impression marking 300 x 300 Square with 3 mm rod /thread-markings. Treatment to continue along the vertical surface for 300mm height in shape of round wata, curing etc. The concrete shall be laid in panels of not more than 200sqm and the joints shall be treated with elastomeric sealants.M20 grade with broom finish and floor hardner at the top for medium traffic density with a minimum thickness of 50mm at drain points and a

slope of 1:150. Cost to include necessary bonding agent / primer to be applied on RCC slab, cleaning and preparation of base slab, grouting of all outlets etc complete

Protected screed to ensure for proper slope and floor drainage system.

- i) Screed has to be smooth finish to take any type of Finish (i.e. landscape, wooden flooring etc.) on the surface
- j) Screed to be laid in panels of not more than 200sqm and the joints shall be treated with Elastomeric Sealants. Expansion joint and Construction joint treatment to be ensured in the Screed panels. Same has to be thread- using **Colpor 200 PF**.
- k) Vertical Surface to be 15 mm plastered upto 300 mm proper termination
- l) Third Ponding Test after Treatment

#### PHOTO



**SECOND POND TEST OVER NITOPROOF 600 STANDARD**



**TYPICAL DRAWING**

