WP-100HD

METHOD STATEMENT

WATERBASED PU MODIFIED WATERPROOFING MEMBRANE

Description

OBAPROOF WP-100HD is a single component which is newly developed polymer of MMA, natural rubber, and polyurethane combines with the reaction with asphalt and then being modified and further emulsified to form elastic waterproof membrane.

Examination

A. **Site Visit:** Prior to waterproofing installation, arrange visit to project site with waterproofing manufacturer's representative. Representative shall inspect and certify that concrete surfaces are in acceptable condition to receive waterproofing treatment.
B. **Verification of Substrates:** Verify that concrete surfaces are sound and clean, and that form release agents and materials used to cure the concrete are compatible with waterproofing treatment.
C. **Examination for Defects:** Examine surfaces to be waterproofed for form tie holes and structural defects such as honeycombing, rock pockets, faulty construction joints and cracks. Such defects to be repaired in accordance to manufacturer's product data and 3.02 below.

Preparation

A. **Concrete Finish:** Concrete surfaces to receive waterproofing treatment shall have an open capillary system to provide tooth and suction, and shall be free from scale, excess form oil, laitance, curing compounds and foreign matter. Horizontal surfaces shall have a rough wood float or broom finish. Where a smooth trowel finish is required on horizontal surface, crystalline waterproofing material shall be applied by dry shake method at time of concrete finishing in accordance with manufacturer's product data.
B. **Surface Preparation:** Smooth surfaces (e.g. where steel forms are used) or surfaces covered with excess form oil or other contaminants shall be washed, lightly sandblasted, water-blasted, or acid etched with muriatic acid as necessary to provide a clean absorbent surface. Surfaces to be acidetched shall be saturated with water prior to application of acid.
C. **Repair of Defects:** Surface defects shall be repaired in accordance with manufacturer's instructions as follows:
D. **Wetting Concrete:** Prior to application of waterproofing treatment, thoroughly saturate concrete surfaces with clean water as required to ensure migration of crystalline chemicals into voids and capillary tracts of the concrete. Remove free surface water before application.

Application

A. **Construction Joints:** Apply Oba CM-700 in liquid form at a rate of 0.2 kg/m^2 to joint surfaces between concrete pours.Where joint surfaces are not accessible prior to pouring new concrete, consult manufacturer for application procedure.
B. **Sealing Strips and Coves:** Prepare concrete surfaces that will come into contact with sealing strips and coves by applying one coat of Oba CM-700 cement modifier at a rate of 0.2 kg/m^2.
C. **Surface Application:** After repairs, surface preparation, treatment of construction joints and sealing strip placement have been completed in accordance with manufacturer's product data and as specified herein, apply OBAPROOF treatment uniformly to concrete surfaces with semi stiff bristle brush or broom, or suitable spray equipment. Application rates and locations shall be as indicated in the drawings and in accordance with manufacturer's product data. When brushing, work slurry well into surface of the concrete, filling surface pores and hairline cracks. When spraying, hold nozzle close enough to ensure that slurry is forced into pores and hairline cracks.

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1. ***Primer (one primer, two coats):*** Apply Oba CM-700 cement modifier coat to locations indicated on drawings in accordance with manufacturer's product data.
2. ***First Coat:*** Apply Obaproof WP-100HD water-based PU waterproofing membrane coat to locations indicated on drawings in accordance with manufacturer's product data. Apply Fiber Glass to skirting 200mm high.
3. ***Second Coat:*** Apply Obaproof WP 100-HD water-based PU waterproofing membrane coat to locations indicated on drawings in accordance with manufacturer's product data.

D. **Sandwich (Topping) Application:** When treated structural slabs are to receive a concrete or other topping, place the topping while waterproofing material is still green but has reached an initial set. Lightly prewater when rapid drying conditions exist.

Curing

A. **General:** Begin curing as soon as Obaproof WP 100-HD coating has hardened sufficiently so as not to be damaged by a fine spray.

B. **Air Circulation:** Do not lay plastic sheeting directly on the waterproofing coating as air contact is required for proper curing. If poor circulation exists in treated areas, it may be necessary to provide fans or blown air to aid in curing of waterproofing treatment.

C. **Holding Structures:** For concrete holding structures such as swimming pools, reservoirs, water treatment tanks and wet wells, cure OBAPROOF treatment for three days and then allow treatment to set for 12 days before filling structure with liquid. For structures holding hot or corrosive liquids, cure waterproofing treatment for three days and allow to set for 18 days before filling.

D. **Protection:** During the curing period, protect treated surfaces from damage by wind, sun, rain and temperatures below 36°F (2°C). If plastic sheeting is used for protection, it must be raised off of waterproofing coating to allow sufficient air circulation.

E. **Curing Agent:** If moist curing is not possible, use a chemical curing agent that is specifically designed for or compatible with the approved OBAPROOF waterproofing treatment. Curing agent shall have at least two years of successful field use and shall be approved by waterproofing manufacturer in writing.

Interface with Other Materials

A. **Backfilling:** Do not backfill for 36 hours after application. If backfill takes place within seven days after application, then backfill material shall be moist so as not to draw moisture from waterproof coating.

B. **Paint, Epoxy or Similar Coatings:** Do not apply paint or other coatings until waterproofing treatment has cured and set for a minimum of 21 days.

C. **Grout, Cement Parge Coat, Plaster or Stucco:** Because the waterproof coating forms a relatively smooth surface and the resulting waterproofing membrane formation fills the concrete pores thereby reducing suction characteristics of the concrete, it may be necessary to use a suitable bonding agent for proper bonding of PU systems.

D. **Responsibility to Ensure Compatibility:** Ufon Nano-chemical Ltd. makes no representations or warranties regarding compatibility of OBAPROOF treatment with coatings, plasters, stuccos, tiles or other surface-applied materials. It shall be the responsibility of the installer of the surfaceapplied material that is to be applied over the OBAPROOF waterproofing treatment, to take whatever measures are necessary, including testing, to ensure acceptance by or adhesion to the waterproofing treatment.

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Field Quality Control

A. **Observation:** Do not conceal installed waterproofing system before it has been observed by Architect / Engineer, waterproofing manufacturer's representative and other designated entities.

B. **Flood Testing:** Perform flood test on completed waterproofing installation before placement of other construction. Plug or dam drains and fill area with water to a depth of two inches (50 mm) or to within 0.5 inch (12.5 mm) of top of waterproofing treatment. Allow water stand for 48 hours.
If leaks are discovered, make repairs and repeat test until no leaks are observed.

Cleaning and Protection

A. **Cleaning:** Clean spillage and soiling from adjacent surfaces using appropriate cleaning agents and procedures.

B. **Protection:** Take measures to protect completed OBAPROOF coating from damage after application. Do not permit traffic on unprotected coating.

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