



POLYPRO – WP™

POLYMER CEMENTIOUS WATERPROOFING COATING

NEED FOR WATERPROOFING

Waterproofing of R.C.C. elements has become a challenge for the Civil Engineers all over the world. The reason being, most of the buildings are high-rise with multistoreyed car parking facilities, basement, terrace gardens and swimming pools at various levels besides a flat open terrace. The factors that add to the existing complications are the adoption of speedy design and construction practices, demand for quality sand and coarse aggregate, improper curing, bad workmanship etc. Multi-storeyed buildings constructed a few years back are in need of repair and rehabilitation from leaky roof, sunken slab leakage, dampness in wall etc. The conventional way of waterproofing the R.C.C. elements are inadequate and needs adoption of good waterproofing methodologies in the construction stage itself to safeguard the structures from premature distress and subsequent deterioration.

POLYPRO-WP™ – POLYMER CEMENTIOUS WATERPROOFING COATING

POLYPRO-WP™ is an acrylic based polymer used for formulating cementious composite system.

POLYPRO - WP™ is mixed with ordinary Portland cement (mix ratio: 1part POLYPRO - WP with 1.5 - 2 kg. cement) and applied over cement mortar / cement concrete surface as a protective coating. This coating exhibits excellent adhesion to the mother concrete / mortar surface; improved flexural strength and adequate impact resistance. Also provides excellent resistance against water absorption and permeability.

POLYPRO - WP™ is admixed with cement mortar / cement concrete at 500 - 2000ml per bag of cement to make a flexible waterproofing screed / layer which offers excellent resistant against water penetration in high water exposure areas.

TYPICAL APPLICATION AREAS

- Waterproofing of terrace, sunken slabs, sloped roofs, roof garden areas, water tanks and reservoirs.
- Waterproofing of parking structures, pre-cast slabs and pavements.
- Waterproofing of parapet walls, brick masonry, cement plastered surfaces.
- Protective coating for R.C.C. and pre-stressed concrete surfaces in aggressive environment.
- Old to new concrete bond coat in repair and rehabilitation works.
- To provide flexible waterproofing screed in high water exposure areas.

Product Name : POLYPRO-WP™
Coverage : 30 – 40 Sq.ft/Ltr/coat

Nature : Acrylic based Polymer
Standard Packing : 5 Ltr., 30 Ltr.. HDPE Cans.

Shelf Life : 6 months

APPLICATION PROCEDURE

* For Protective Waterproofing Coating

- Removal of all dust, dirt, loose particles, oil, grease, bituminous coat etc. from the mortar / concrete surface.
- Filling of surface cracks with **POLYPRO-WP™** modified paste. (Mix ratio - 1 part cement : 1 part **POLYPRO-WP** : 3 parts **POLYPRO-WP** powder)
- Damping the concrete / mortar surface with **POLYPRO-WP™** modified water. (Mix ratio - 1 ltr. **POLYPRO-WP** : 25 ltr. water)
- Application of two coats of **POLYPRO-WP™** mixed cement slurry at the interval of 6 hours (Mix ratio - 1 ltr. **POLYPRO-WP™** : 1.5 – 2 kg cement)

Note : After 6 hours of application of final coat, moist curing shall be done for 24 hours by spraying with water followed by 2 days air curing.

* For Flexible Waterproofing Screed

- Removal of all dust, dirt, loose particles, oil, grease, bituminous coat etc. from the mortar / concrete surface.
- Filling of surface cracks with **POLYPRO-WP™** modified paste. (Mix ratio - 1 part cement : 1 part **POLYPRO-WP** : 3 parts **POLYPRO-WP** powder)
- Damping the concrete / mortar surface with **POLYPRO-WP™** modified water. (Mix ratio - 1 ltr. **POLYPRO-WP** : 25 ltr. water)
- Preparing **POLYPRO-WP** modified mortar / concrete (Dosage : 500 ml - 2000 ml. per bag of cement) for a given mix ratio and laying it with a desired slope.



SUNKEN SLAB WATERPROOFING



SLOPED ROOFS WATERPROOFING



TERRACE WATERPROOFING

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