



# POLYPRO – 786™

(T.M. Appln. No. 2826366)

## CEMENT WATERPROOFING ADMIXTURE

### INTRODUCTION

Waterproofing of potential components of reinforced concrete structures is necessary to provide comfort to the inhabitants (i.e., to maintain serviceability conditions) and also to save structure from premature distress and deterioration due to corrosion of steel inside concrete. Nowadays, waterproofing of R.C.C. elements poses a challenge to engineers due to construction of high-rise buildings with multistoreyed car parking facilities, basement, terrace gardens and swimming pools at various levels besides a flat open terrace. Even in individual house construction, terrace garden, sloped roof, thin elements and swimming pool becomes a common feature. 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. The result is 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 proven waterproofing methodologies in the construction stage itself to safeguard the structures from premature distress and subsequent deterioration.

### POLYPRO-786™ – POLYMER CEMENT WATERPROOFING ADMIXTURE

**POLYPRO-786™** is a dispersion of copolymer of styrene and acrylate is used for formulating various cementitious composites for applications which requires excellent waterproofing and strength properties.

**POLYPRO - 786™** is admixed with cement mortar / concrete at 500 - 2000 ml. per bag of cement to make a flexible waterproofing screed / layer which offers excellent resistant against water penetration in high water exposure areas.

**POLYPRO - 786™** is mixed with cement and **POLYPRO - 786™** powder component (Mix ratio - 1 : 2) to produce high strength mortar for concrete crack repair.

**POLYPRO - 786™** with ordinary Portland cement (mix ratio: 1part **POLYPRO -786™** with 1.5 - 2 kg. cement) is applied over cement mortar / cement concrete surface as a protective coating. This coating exhibits excellent adhesion and impact resistance properties. Also offers appreciable flexural strength and high resistance against water absorption and permeability.

**Product Name** : **POLYPRO-786™**      **Nature** : Copolymer of Styrene and Acrylate      **Shelf Life** : 6 months  
**Coverage** : 30 – 40 Sq.ft/Ltr/coat      **Standard Packing** : 5 Ltr., 30 Ltr.. HDPE Cans.

## TYPICAL APPLICATION AREAS

- To provide flexible waterproofing screed in high water exposure areas.
- High strength mortar for concrete crack repair
- 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.

## APPLICATION PROCEDURE

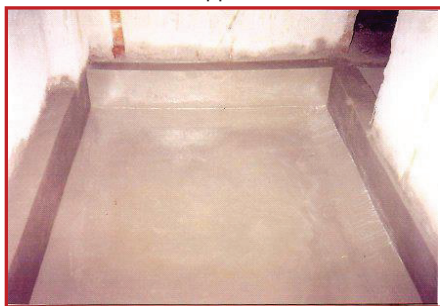
### \* For High Strength Waterproofing Screed

- Removal of all dust, dirt, loose particles, oil, grease, bituminous coat etc. from the mortar / concrete surface.
- Filling of surface cracks with **POLYPRO-786™** modified paste. (Mix ratio - 1 part cement : 1 part **POLYPRO-786™** : 3 parts **POLYPRO-786** powder)
- Damping the concrete / mortar surface with **POLYPRO-WP™** modified water. (Mix ratio - 1 ltr. **POLYPRO-786™**: 25 ltr. water)
- Preparing **POLYPRO-786™** modified mortar / concrete (Dosage : 500 ml - 2000 ml. per bag of cement) for a given mix ratio and laying it with a desired slope.

### \* 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-786™** modified paste. (Mix ratio - 1 part cement : 1 part **POLYPRO-786™**: 3 parts **POLYPRO-786™** powder)
- Damping the concrete / mortar surface with **POLYPRO-786™** modified water. (Mix ratio - 1 ltr **POLYPRO-786™**: 25 ltr. water)
- Application of two coats of **POLYPRO-786™** mixed cement slurry at the interval of 6 hours ( Mix ratio - 1 ltr. **POLYPRO-786™**: 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 further information please contact*

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