

Waterproofing | Cementitious-In Cementitious Waterproof for Internal

POLYMER MODIFIED CEMENTITIOUS WATERPROOFING COATING

W-CemIn is resilient insulator cement-based paint, a prepackaged brush, roller or spray applied surfacing material. Modified with a high solids latex, this material exhibits excellent bond strength with reduced permeability. *W-CemIn* forms a breathable protective coating. *W-CemIn* protects exposed reinforced concrete structures from the attack of acidic gases and chloride ions. The coating is particularly suitable for use in areas of coastal and marine environments and can be used in all types of structures, for existing and new concrete. *W-CemIn* exhibits high wear resistance, weather resistance and is suitable to be used as a decorative coating. The coating provides seamless resilient and flexible waterproofing which is suitable for reservoirs roofs and water tanks.

ADVANTAGES

- Suitable for waterproofing water retaining structures
- Polymer modification reduces permeability and dusting while increasing bond, tensile and flexural strength
- Excellent resistance against the Middle East Environment
- Non-toxic
- For interior or exterior use
- Excellent wear resistance
- User friendly - low labor cost
- Nonpoisonous, **suitable to use in potable water tanks**

PACKAGING

W-CemIn is packaged as 20 Kg powder and 10 liters of polymer additives

TECHNICAL INFORMATION

Density	1.7 gm/cm ³
Bond Strength	3.1 MPa
Compressive Strength	33.2 MPa
Flexural Strength	10 MPa
Tensile Strength	4 MPa
Toxicity	Non-toxic
Moisture Vapor Permeability	200 gm/m ² /day
Application Temperature	Not below 5° C

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COVERAGE

W-CemIn coverage rate is 18m² at 1 mm thickness.

If *W-CemIn* is to be subjected to light foot traffic minimum thickness should be 2 mm.

COLORS

Grey & White

DIRECTION FOR USE

Surface Preparation

Concrete must be clean and rough (Note: in case of fair-face we recommend to use F.F.-Bond as a base material). All oil, dirt, debris, paint and unsound concrete must be removed. The surface can be prepared mechanically using sandblasting, shot blasting or scarifier which will give a slight surface profile. The final step in cleaning should be complete removal of all residue with a vacuum cleaner or by pressure washing.

Acid etching is acceptable only when mechanical preparation is impractical. It is recommended that only contractors experienced in the acid etching process use this means of surface preparation. The salt of the reaction must be thoroughly pressure washed away. Prior to application, the surface should be pre-soaked with clean water, excess standing water should be removed.

NOTE: Even with proper procedures an acid etched surface may not provide an strong a bond as produced by mechanical preparation procedures.

All concrete must possess an open surface texture with all curing compounds and sealers removed.

All cracks over 2mm wide should be routed out to a 6 mm width and 6mm depth prior to application of *W-CemIn*

Mixing

W-CemIn should be mixed using slow speed mixer. Use a paddle type mortar mixer for large jobs. Add the appropriate amount of liquid for the batch size and then add the dry product. Mix for a minimum of 3 minutes, endeavor to avoid air entrapment. *W-CemIn* should be placed immediately after mixing, avoid mixing more material more than the quantity that can be used within 20 minutes.

For the Middle East climatic conditions, where the temp. exceeds 40° C, use of a primer coat of *W-CemIn* mixed in a slurry like consistency. Apply *W-CemIn* directly over the slurry/primer coat.

Cleaning

Utilize clean water for cleaning of equipment and tools