

CHEMfix 11

Cementitious Acrylic Base Elastomeric Waterproof Coating System

Description

CHEMfix 11 is a 2 component flexible acrylic modified cementitious waterproof coating system. This waterproofing coating cures to form elastomeric waterproofing membrane with excellent adhesion. This material exhibits excellent bond strength with reduced permeability. **CHEMfix 11** forms a breathable coating. **CHEMfix 11** protects exposed reinforced concrete structures from attack from 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. **CHEMfix 11** exhibits high wear resistance, weather resistance and is suitable to be used as a decorative coating. The coating provides seamless resilient and elastomeric flexible waterproofing system.

ADVANTAGES

- Suitable for waterproofing water retaining structures.
- Withstands high positive and negative hydrostatic pressures.
- Excellent resistance against the HOT & Humid Environment like Middle East.
- Non-toxic
- For interior or exterior use.
- Excellent wear resistance.
- User friendly - low labor cost.
- Excellent crack bridging capacity.
- Excellent bond to substrate such as concrete, masonry, Metal etc.



DIRECTION FOR USE

Surface Preparation

Concrete must be clean and rough. 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 residues with a vacuum cleaner or by any suitable surface cleaning procedure.

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.

TECHNICAL INFORMATION

Color	Grey & White	
Supply	Powder & Liquid	
Elongation	200%	
Pot Life	1 Hour	
Foot Traffic	After 1 Day	
Toxicity	Non-toxic	
Density	1.8 gm/cm ³	
Tensile Strength	780 psi	

Chloride Ion Resistance	Coated	Uncoated
6 months	0.0004%	0.035%

NOTE:

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

Mixing

CHEMfix 11 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, Endeavour to avoid air entrapment. **CHEMfix11** should be placed immediately after mixing, avoid mixing more material that can be used within 45 minutes.

Application: Thoroughly dampen down the concrete surface with clean water prior to application. Ideal conditions are saturated surface dry (SSD). Do not apply to dry concrete.

Whilst damp, apply **CHEMfix 11** with a bristle brush or roller at the rate of 1.8 kg/m². This is achievable in one coat on horizontal surfaces although two coats will ensure even coverage and remove pin holing. On vertical or overhead surfaces, two coats are required. Where more than one coat is required, the previous coat should be allowed to dry prior to subsequent applications.

Spray application may be suitable for larger areas; airless spray should be used with 3-4 mm nozzle sizes at 6-8 bar pressure. Trials should be conducted to finalize the best method for application. Ensure continuous supply of mixed product when adopting this method. Equipment should be thoroughly cleaned immediately after use with water. Hardened coating may only be removed mechanically. At up stands and across joints, it is recommended that a geotextile mesh be imbedded in the coating. This will increase the physical properties and will aid distribution of localized stresses. The mesh should be applied as a sandwich between the first and second coats of **CHEMfix 11**.

As **CHEMfix 11** is moisture tolerant, it can be applied onto concrete that is only 24 hours old thereby giving immediate protection and curing.

Where heavy depressions, cracks or blowholes are present, reduce the amount of gauging liquid in the mix to the desired consistency and carry out re-profiling. When used in tanking applications allow the coating to cure fully for 72 hours prior to water testing.

Cleaning

Utilize clean water for cleaning of equipment and tools.

PACKAGING

CHEMfix 11 is packaged as 25 Kg powder and 10 Kg of Liquid additives.

COVERAGE

CHEMfix 11 coverage rate is 1.8Kg at 1 mm thickness.



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