



AQUAKEM

Water Based Epoxy Sealer Membrane

DESCRIPTION

A two part, chemically cured, water based epoxy sealer membrane for most porous building components.

USES

For curing, seepage and dampness problems on interior or exterior, surfaces of basements, tunnels, liftwells, retaining walls, floors, below grade car parks, etc. Excellent on fresh concrete after it has hardened and is ideal as waterproof membrane on concrete floor slabs under carpets and other floor coverings.

FEATURES

- ◆ Cured membrane will withstand approx. 2.5 kg/cm² (36 p.s.i.) hydrostatic pressure or equivalent to around a 25 meters head of water.
- ◆ Can be applied onto damp surfaces.
- ◆ Does not impair bond of subsequent adhesives or paints.
- ◆ May be tinted with universal paint tinters.
- ◆ Non flammable, odourless and low toxicity.
- ◆ Can be applied to interior or exterior surfaces.

COLOUR : White

PERFORMANCE

Adhesion - Excellent to correctly prepared surfaces such as brick. Concrete block, masonry, concrete and asbestos cement. Also to galvanised steel and timber.

GLOSS - Semi - gloss.

Over painting - May be over painted with most decorative paints.

APPLICATION DATA

Surface Preparation

All surfaces must be structurally sound with all previous coatings removed by chipping, power wire brush, sand-blasting or other suitable method. Any efflorescence and laitence must be removed also preferably by acid etching with a 10% solution of Hydrochloric (Muriatic) acid and water. After bubbling ceases immediately rinse off with copious quantities of clean, fresh water, scrubbing with stiff broom at the same time. Do not allow etching solution to dry before rinsing.

Holes, cracks and friable areas must be patched with a mortar prepared from 1 part cement 2 parts sand and 1 part AQUAKEM. Allow to dry 2 – 3 hours at the rate of 25° C. Free flowing leaks can be sealed using 'STRUCCO – NO.3'

Very dry and porous surfaces should be primed with a fine mist water spray for best application results.

MIXING

Stir both parts separately to overcome settlement, which may have occurred, ensuring the stirrer is cleaned before using for the second part. Pour equal volume of Part A and Part B into a clean container. Mix with a slow speed power drill fitted with a stirrer for atleast 3 minutes. Do not mix more than can be applied in 2 hours at 25° C. Do not use if temperature is below 10° C or above 85% humidity.

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Pot Life	: 2 hours at the rate of 25°C 1 hour at the rate of 40°C
Min.Dry Film	: 0.15 mm on rough surfaces
Per Coat	: 0.12 mm on smooth surfaces
Coverage	: 1 st coat rough surfaces 2.5 m ² /Kg smooth surfaces 2 m ² Kg 2 nd coat rough surface 3.7 m ² Kg smooth surfaces 5 m ² Kg
Curing	: Recoat 2 hours at the rate of 25° C 50% R.H. Full Cure 7 days at the rate of 25° C 50% R.H.
Specific Gravity	: 1.22
Gloss	: Semi Gloss
Total Solids (mixed)	: 55% by weight
Flash point	: Not applicable

APPLICATION

Apply by long nap roller, airless or conventional spray or stiff nylon brush taking care to work AQUAKEM in different directions to avoid pin holing. Ensure material is applied liberally at the rate of 2.5m²/Kg, on rough surfaces and 3m²/Kg on smoother surfaces for the first coat. Allow 2 hours at the rate of 25°C to dry then apply second coat at rate of 3.7m²/Kg on rough surfaces and 5m²/Kg on smoother surfaces. Allow to cure for approximately 24 hours at the rate of 25°C/50% R.H. before applying any decorative overcoats.

THINNING

Do not thin AQUAKEM when first mixed. It is possible to add up to 1 part water to 8 parts AQUAKEM when products is near the end of its pot life to assist in application. Mix water in thoroughly.

CLEANING : Wash all equipment in warm water/detergent solution before product cures.

PACKAGING : AQUAKEM is available in 40 Kg kits.

STORAGE : The unmixed and unopened containers have a shelf life of upto 12 months when stored in temperatures above 0°C and in the dry.

TECHNICAL SERVICE :

SWC group maintains a technical division with highly qualified technical personnel to investigate and advise on subjects related to Concrete and the Construction Industry. The Division can advise on the correct use and selection of right products at the right place.

SWC undertakes Consultancy Service for diagnosis and rehabilitation of distressed structures. SWC undertakes Contracts on turnkey basis for total Waterproofing System with guarantee

NOTE : This Technical data sheet is to be used as guidance only. Although the basic formulation of the product remains unchanged, production refinements arising from continuing research and evaluation programmes may occasionally result in marginal change in properties. The recommendation and properties of the product based on continuous monitoring of the product are not intended to infringe on other patents.

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