

SECTION 7

MOISTURE
BARRIERS

Aquakem®

AQUAKEM

Two-Part Water-Based Waterproof Epoxy Sealer

PRODUCT DESCRIPTION

Aquakem is a water-based epoxy coating ideal for waterproofing and dustproofing interior floors and walls.

DISTINGUISHING FEATURES

Aquakem is a non-flammable, odourless sealer, safe for use indoors. The epoxy coating accepts adhesives, paints and non-slip aggregates. **Aquakem** can be applied to damp surfaces.

USES

Aquakem is an exceptionally versatile product. It is commonly used to dustproof and waterproof interior floors and walls.

Aquakem can be used on interior brick, concrete block, masonry, concrete, fibre-cement and cement render.

LIMITATIONS

Because **Aquakem** degrades in sunlight, it is not recommended for external application. Careful surface preparation is required to ensure the substrate is smooth and free of pinholes and hollows.

PERFORMANCE DATA

Adhesion

Excellent adhesion to correctly prepared surfaces such as interior brick, concrete block, masonry, concrete and fibre-cement. Also adheres to galvanised steel and timber.

Hydrostatic Pressure

Will withstand up to approximately 250Kpa or a 25 meter head of water.

Overpainting

May be overpainted with most decorative paints.

The Australian Trade Practices Act implies into contracts for the supply by a corporation of services as a "consumer" non-excludable warranties that, among other things, the goods provided will be of merchantable quality. Except to the extent that the Purchaser has non-excludable rights against the company under the Trade Practices Act, and because we cannot anticipate or control the many different conditions under which our products and information furnished relating to their use may be used, we do not guarantee the applicability or the accuracy of this information or the suitability of our products in any given situation.

In accepting our goods the customer acknowledges:

- (a) The materials are of a hazardous nature and that the customer is responsible for disposal of the container in accordance with the requirements and regulations of the relevant supervising government.
- (b) The materials have a limited shelf life and must be stored strictly in accordance with the guidelines and specifications relating to the particular product.
- (c) The company gives no warranty as to the applicability for the particular use by the customer and the customer shall be responsible for having to ensure that the materials are fit for the use by the customer.

CHARACTERISTICS

Pot Life:	2 hours @ 25°C 1 hour @ 35°C
Minimum Dry Film:	0.15 mm – rough surfaces
Thickness (per coat):	0.12 mm – smooth surfaces
Curing:	Recoat 2 hours @ 25°C 50% RH Full cure 7 days @ 25°C 50% RH
Specific Gravity:	A Component : 1.24 B Component : 1.28
Colour:	White or Light Grey
Gloss:	Semi-gloss
Non-Volatiles:	55% by weight
Flash Point:	Non-Flammable

HOW TO USE AQUAKEM

Surface Preparation

All surfaces must be structurally sound with all previous coatings removed by chipping, power wire brush, sandblasting or other suitable method.

Any efflorescence and latence must be removed with a 10% solution of hydrochloric (muriatic) acid and water. After bubbling ceases immediately rinse with copious quantities of clean, fresh water, scrubbing with a stiff broom at the same time. Do not allow etching solution to dry before rinsing.

Holes, cracks and friable areas must be primed with **Aquakem** and patched with a mortar prepared from 1 part cement, 3 parts sand and 1 part **Aquakem**. Allow to dry for 2-3 hours at 25°C. Free flowing leaks should be sealed with a hydraulic cement.

It is very important that the surface be free of small defects such as hollows or dimples.

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

Mixing

Stir Part A and Part B separately to overcome any settling which may have occurred.

Clean the stirrer from Part A before using to stir Part B.

Pour equal volumes of Part A and Part B into a clean container. Mix with a slow-speed power drill fitted with a paint stirrer for at least 3 minutes. Do not mix more than can be applied in 2 hours at 25°C. Do not mix if temperature is below 10°C or if relative humidity is above 85%. Do not thin **Aquakem** when first mixed.

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APPLICATION

Apply by long-nap roller, airless or conventional spray equipment or a stiff nylon brush, taking care to work **Aquakem** in different directions to avoid pin holing. Ensure material is applied liberally at the rate of 2.5 m²/L on rough surfaces and 3 m²/L on smoother surfaces for the first coat. Allow to dry 2 hours @ 25°C. Then apply a second coat at the rate of 3.7 m²/L on rough surfaces and 5 m²/L on smoother surfaces.

Allow to cure for approximately 24 hours @ 25°C, 50% RH before applying any decorative overcoats. It is essential that the above coverage rates be achieved to ensure that a continuous coating is obtained.

CLEAN UP

Clean up all equipment etc. with warm water and detergent before the **Aquakem** cures.

COVERAGE

A coverage rate of 2.5-3 m² per litre is recommended as a first coat. The suggested coverage rate for the second coat is 3.7-5 m² per litre.

PACKAGING

Aquakem is available in 20L kits comprising two 10L pails

STORAGE

Parts A and B in the original unopened containers have a shelf life of up to 12 months when stored in temperatures above 0°C in dry conditions. Protect from frost.

ADDITIONAL INFORMATION

Safety Data Sheet

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