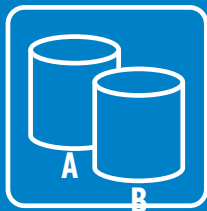


CHEMICAL AND WEAR RESISTANT COATING

PACKAGING



MIXING



APPLICATION



USES



SUBSTRATES

CONCRETE
CEMENT RENDER
BRICK BLOCK

DESCRIPTION

A water-based solvent free two pack epoxy coating which hardens to a tough porcelainic or ceramic like finish. EPESHIELD is designed as an impervious finish providing excellent chemical resistance. It can be applied over concrete, masonry and steel substrates for both interior and exterior use (**will chalk externally**).

USES

A wear and chemical resistant coating for manufacturing plants, concrete swimming pools, food processing industries, hospitals, laboratories, abattoirs, dairies, toilet floors, car parks and warehouses.
An anti-graffiti wall coating.

Non-slip flooring: With the addition of 3-5% sand, glass bead or non-slip granules, it can be made non-slip and used on loading docks, ramps, stairs and other areas requiring non-slip properties or sprinkle fine, dry sand into the first wet coat and sweep off excess after the coating has hardened before applying the second coat.

FEATURES

Seamless and easily cleaned. Abrasion and impact resistant. Impervious and hygienic. Excellent chemical and water resistance. Waterproof and decorative. Excellent adhesion to most substrates. Does not support growth of bacteria or fungi. High scrub and wash resistance. Unaffected by continuous water immersion. Brushes wash in water. Non-flammable and low toxicity.

COVERAGE (Approximate)

7 m²/litre per 100 micron thickness. A final application of 200 micron or greater is recommended.

COLOURS

Off-white, and may be tinted with water based pigments.

PERFORMANCE DATA

Surface Water Absorption BS1881 part 5 test 6

Short term (1 hour) 0.0017 mL/M²/sec

Long term (24 hours) 0.0008 mL/m²/sec

reduces surface water absorption by 98%

Adhesion to the substrate (ASTM D4541) 2.3 Mpa

Chemical Resistance not affected by 10% solutions of alkali, acids and petroleum solvents.

Weathering

2000 QUV slight chalking, the coating being more suitable to internal than external use.

POTABLE WATER

Passes requirements as AS4020 for contact with drinking water.

SPECIFICATION

The coating shall be a chemical and wear resistant water based epoxy coating that will reduce water absorption by 98% and have a minimum adhesion of 2.3Mpa such as EPESHIELD manufactured by Construction Chemicals and applied in accordance with the manufacturers application instructions.

SURFACE PREPARATION

Surfaces to be coated must be clean, dry, free of dirt and dust, efflorescence, laitance, form oil, curing compound, previous coatings and other contaminants. New concrete should be cured a minimum of 28 days. Dry surfaces allow easier application of the coating, however, it will adhere to clean damp surfaces. Remove all dirt, laitance, efflorescence and contaminants by mechanical means. Remove paint with a paint stripper or by grinding. Remove oil and grease with a strong detergent. Prepare steel with wire brush and prime with a zinc chromate primer. Smooth concrete must be roughened by mechanical means.

MIXING

Stir part A & B separately before mixing A & B components together, with a low speed electric drill (200-300rpm) until a uniform colour develops. Wear gloves and avoid contact with eyes and skin during mixing and application. The end of pot life is visible when a strong increase of the viscosity occurs.

APPLICATION

Apply coating with a roller or brush. Dilute with clean neutral water to suit users preference. Approx. 10% dilution with water will be necessary. Work in different directions when

using brush or roller to eliminate pinholes. Normal conditions will require 2 coats, and 3 coats are required in severe conditions. Discard unused material after the working time has expired. Do not mix or use below 10°C or above 30°C. Pot life is 2-4 hours depending on temperature. **Each coat must not be thicker than 100 micron.**

When applied at 25°C @ 50% R.H. and 100 micron thick, the coating is tack free in 12 hours and recoat time is 24 hours. 80% cure is achieved in 7 days and full cure 28 days. Apply the successive coats prior to 48 hours between applications, if longer, sanding is required.

RECOATING

Recoat to old EPESHIELD by removing oil, dust, grease and contaminants and roughening the surface with sandpaper, wire brush, etc.

CLEAN UP

Immerse application equipment not in use in water during application to prevent hardening. Wash equipment after use in warm water and detergent then rinse in kerosene within 24 hours.

SHELF LIFE

2 years



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