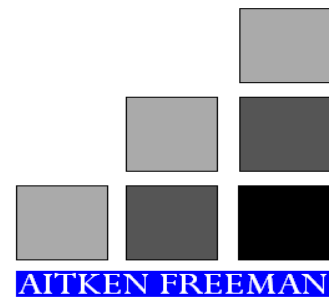


Tecpatch CR



Penetrative Fine Cementitious Coating

USES

- Concrete water towers and reservoirs
- Water treatment and sewage plants
- Swimming pools
- Roof decks
- Underground tunnels
- Basements and foundations
- Chemical and fertilizer plants
- Bridge pylons, beams, and decks
- Marine structures
- Below ground car parks
- Rain damaged slabs

BENEFITS

- Forms an indivisible body with concrete base.
- Significantly increases impermeability of concrete.
- Resists extreme hydrostatic pressure from either positive or negative surface of the concrete slab.
- Can be applied to the positive and negative side of the concrete surface.
- Can seal hairline cracks up to 0.5 mm.
- Enhances the properties of concrete against reinforcement corrosion.
- Significantly reduces chloride penetration.
- Allows concrete to breathe.
- Does not require a dry surface.

Tecpatch CR contains a Migrating Corrosion Inhibitor which significantly increases the corrosion protection of steel reinforcement in concrete.

TECHNICAL SUPPORT

Aitken Freeman offers a comprehensive range of high quality, high performance construction products. In addition, Aitken Freeman offers technical support to users and specifiers and can arrange on-site visits to end users and contractors.

DESCRIPTION

Tecpatch CR is a unique penetrative fine cementitious coating specially designed for waterproofing and protection of old and new concrete against positive and negative water pressure. Prevents the penetration of water and other liquids into concrete by causing reactions that produce non-soluble cementitious formations within the pores and capillaries of concrete. These formations grow in the presence of water, blocking pores, capillaries and minor shrinkage cracks, thus waterproofing concrete.

TYPICAL PROPERTIES

Appearance	Grey Powder
Maximum Grain Size	0.5mm
Application Thickness	.05mm -1.5mm
Water	4 to 4. 4 litres
Application Temp.	5 to 40 degrees C
Impermeability	Waterproof according to DIN 1048
Chloride ion diffusion	Reduced approx. 2 times according to NT Build 443-1955-11
Impact abrasion	Resistance is significantly increased according to AS/NZ 4469.9.2003
Compressive strength (MPa)	1 day 26.3 28 days 52.5
Flexural strength (MPa)	28 days 8.2
Bond strength (MPa)	28 days 6.1
Carbonation	Resistance is increased according to Colourmetric method
Water absorption	Decreased approx. 3 times
Acidic medium resistance at PH3-4	Approx. 2 times higher than conventional Cement mortar

PREPERATION

Remove any weak, spalling, unconsolidated concrete and any existing coating, and thoroughly clean surface. If steel reinforcement is exposed, remove any rusting on the steel surface. Concrete must have open capillaries and a rough surface

If surface is too smooth or covered with oily matter, the concrete must be lightly sandblasted, acid etched, or pressure washed. Then hose the concrete surface to fully impregnate it with water and allow drying to a wet dull puddle free lustre.

PRIMING

We recommend priming with the Tecpatch CR Primer.

Tecpatch CR primer should be applied to the concrete substrate in order to passivate the steel reinforcement embedded beneath the concrete and completely harden the concrete surface, creating an appropriate adhesion platform and, as a result, increasing bond strength of Tecpatch CR coating.

Apply Tecpatch CR Primer at the rate of one litre per 3-5 square metres on the dry touch concrete substrate to fully impregnate the substrate and allow drying to a wet dull lustre and puddle free.

MIXING EQUIPMENT:

Low sheer mechanical mixer.

MIXING INSTRUCTIONS

Normal water requirement is 4.0-4.4 L per 20 kg pail, depending on the required viscosity.

Place 4.0 litres of water in a clean mixer bucket. While stirring, gradually add Tecpatch CR and mix thoroughly for 2-3 minutes.

If necessary, add additional water, until a mix of the desired workability is obtained

Mix for a further minimum 1 minute.

Use mixed material within 30 minutes.

INSTALLATION

Apply with a concrete brush, trowel to a wet, puddle free surface.

With a concrete brush, use an aggressive circular motion to coat the concrete with the Tecpatch CR Slurry mix.

To ensure complete coverage with no missed or thin spots, we recommend always applying two coats.

The second coat can be applied as soon as the first has set hard.

It is usually after about 4 hours depending on the conditions.

COVERAGE

Approximately 10.5m² @ 1mm

CURING

Keep damp for at least 3 days and provide suitable protection against extreme weather conditions (sun, wind, frost) while setting. The continued curing for several days will be beneficial in most cases.

The freshly treated surface should be protected from rain for a minimum period of 12 hours.

Finishes containing Portland cement may be applied over Tecpatch CR following the curing period, but other paint and coating finishes should not be applied before 28 days.

CLEAN UP

Tecpatch CR should be removed from tools and equipment immediately after completion using water. Cured material can only be removed mechanically.

STORAGE

Tecpatch CR has a shelf life of 12 months if kept in dry store in unopened, sealed bags. If stored in high temperature and/or high humidity locations, the shelf life may be significantly reduced

Allied Products

Aitken Freeman manufactures a broad range of construction products and can supply the following:

- Grouts and anchoring systems
- Epoxy Surface Coatings
- Admixtures for concrete
- Adhesives & Sealants
- Floor toppings
- Floor levelling compounds
- Concrete Repair materials
- Waterproofing solutions

Refer to Material Safety Data Sheet for precautions and personal protection

Disclaimer: Any advice, recommendation, information, assistance or service provided by Aitken Freeman P/L in relation to goods manufactured or supplied by them or their use and application is in good faith and is believed by Aitken Freeman P/L to be appropriate and reliable. However, any advice, recommendation, information, assistance or service provided by Aitken Freeman P/L is provided without liability.

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