

High performance chemical resistant epoxy coating for concrete and steel

Product Description

TAL EPOXYSEAL CR is a high performance, high build epoxy protective coating suitable for use in a wide range of applications. TAL EPOXYSEAL CR is available for use in tidal conditions and at low ambient temperatures.

Composition

TAL EPOXYSEAL CR is a solvent free epoxy resin containing acid resistant fillers and wetting agents.

Advantages

- Can be applied to steel and concrete
- High abrasion resistance
- Primerless
- Resistant to a wide range of chemicals
- Waterproof
- Better UV resistance than most epoxy coatings
- Zero VOC

Typical Uses

- Protection of concrete structures
- Waste water plants and structures
- Wall and floor coating for industrial facilities
- Protection of marine structures

Chemical Resistance

TAL EPOXYSEAL CR has excellent resistance to the following chemicals:

1% Lactic Acid
25% Sodium Hydroxide
20% Hydrochloric Acid
25% Sulphuric Acid
Kerosene
Petrol
Chlorinated Water
Distilled Water
Ferric Chloride
Aluminum Sulfate
Raw Sewerage
Treated Effluent

Application Properties

Dry film thickness	300 microns (12mils) (2 coats)
Application Temperature	5°C to 45°C
Pot life	60 mins. at 20°C / 25 mins. at 35°C
Recoat Time	12 to 24 hours at 20°C / 4 to 12 hours at 35°C
Full cure	7 days at 20°C

Volatile Organic Content

VOC = 0g/L

Colour

Grey.

Theoretical Coverage

6.6m² per liter per coat.

Actual coverage will depend on wastage and surface profile and can be up to 20% higher than theoretical coverage.

Packaging

5 & 15 liter kits (2 part)

Shelf Life

18 months when stored below 35°C under shade in a dry environment.

Installation Guidelines

TAL EPOXYSEAL CR should be applied by experienced coating crews. TAL provides detailed method statements on all its products for use in various applications. These must be referred to prior to starting work. The information below is a summary intended for guidance only.

Surface Preparation

Concrete

The substrate must be structurally sound. Loose or unsound concrete should be removed and made good. Surfaces must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. The surface should be prepared by light grit blasting or high pressure water blasting to produce a lightly exposed aggregate surface. Any bug holes should be filled with TAL BUGFILL.

Steel

Any damaged steel should be removed and replaced. The substrate should then be grit blasted to minimum SA 2½. Depending on the level of corrosion protection required, an anti-corrosion or holding primer may be necessary. TAL EPOXYSEAL CR must be applied immediately after the grit blasting has been completed. Any imperfections should be filled with an TAL BUGFILL.

Priming

A primer is not normally required. If the substrate is very porous then prime with TAL SF PRIMER. If the substrate is subject to moisture then prime with TAL MT PRIMER.

Mixing

Add the hardener 'Part B' into the base 'Part A' and mix using a slow speed drill (500 rpm) with a TAL Coating Mixer Paddle for 3 minutes or until both components have fully dispersed and are uniform in color. Be sure to rotate the mixer throughout the drum. Mix only full packs.

Application

Apply in two coats of 150 micron (6mils) wet film thickness using brush or roller. The first coat should be applied in such a manner as to ensure a good bond. Allow first coat to dry for at least 12 hours at 20°C or 4 hours at 35°C. For application by airless spray consult TAL before use. Clean equipment using TAL SOLVENT S.

UV Resistance

TAL EPOXYSEAL CR is resistant to ultra violet radiation from direct sunlight and will maintain its chemical and physical properties. As is typical with all epoxy coatings, the color will change slightly on exposure to sunlight. When no colour change is acceptable, the product should be over-coated with a suitable aliphatic coating.

Limitations

Will not accommodate movement cracks.
Do not apply within 3°C of the dewpoint or if it is within 5°C of the dewpoint and dropping.
Avoid excessive application.
Avoid skin contact.
Do not discard into the water system.

