

Potable water grade epoxy coating for concrete and steel

Product Description

TAL EPOXYSEAL PW is a solvent free, high performance, epoxy protective coating suitable for use in a wide range of applications, particularly in contact with potable water.

Advantages

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Formaldehyde free
- Suitable for use in contact with potable water
- Can be applied to steel and concrete
- High abrasion resistance
- Resistant to wide range of chemicals
- Waterproof

Uses

- Internal coating of water retaining structures
- Coating of pipes
- Wall and floor coating for industrial facilities
- General purpose coating for food processing areas
- Internal coating of silos

Specification Compliance

SCAQMD Rule 1113
LEED NC2009 IEQ 4.2
BS6920: Part 1
AWWA C210
ASTM D2794

Chemical Resistance

TAL EPOXYSEAL PW has excellent resistance to the following chemicals:

1% Lactic acid
25% Sodium hydroxide
Kerosene
Petrol
Chlorinated water
Distilled water

Application Properties

Property	Typical Results
Dry film thickness	150 to 200 microns (6 to 8mils) per coat
Application temperature	5 to 35°C
Pot life	60 to 90 mins at 20°C 30 to 45 mins at 30°C
Recoat time	16 to 24 hours at 20°C 6 to 16 hours at 30°C
Full cure	7 days at 20°C 5 days at 30°C

Volatile Organic Content

VOC = <10g/L

Colour

Grey.

Theoretical Coverage

5m² per liter per coat at 200 microns. Actual coverage will depend on wastage and surface profile and can be up to 20% higher than theoretical coverage.

Packaging

5 and 15 liter kits.

Shelf Life

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

Installation Guidelines

TAL EPOXYSEAL PW 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 PW must be applied immediately after the grit blasting has been completed. Any imperfections should be filled with TAL BUGFILL.

Priming

(TAL SF PRIMER or TAL WD PRIMER)

The use of a primer is normally recommended. However, if the substrate is high quality sound concrete then a primer may not be required. This can only be determined by a site trial and manufacturer's pull off test.

Prime using TAL SF PRIMER, applied by roller to give a wet film thickness of 100 to 150 microns. Ensure that no ponding of the primer occurs and that it is not applied too thick. The TAL EPOXYSEAL PW should be applied when the primer is dry but within the open time of the primer. If left for longer than the open time, the primer must be reapplied before applying the TAL EPOXYSEAL PW. Take care to ensure no contamination of the primed surfaces occurs.

Prime using TAL WD PRIMER when applying onto damp substrates. Apply in coats of 100 microns wet film thickness using brush, roller or airless spray. Clean equipment using water. The TAL EPOXYSEAL PW should be applied when the primer is dry but within the open time of the primer. If left for longer than the open time, the primer must be reapplied before applying the TAL EPOXYSEAL PW. Take care to ensure no contamination of the primed surfaces occurs.

Mixing

Add the hardener 'Part B' into the base 'Part A' and mix using a slow speed drill (500 rpm) with an 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 200 micron 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 8 hours at 20°C or 4 hours at 30°C. For application by airless spray or pipe coating equipment consult TAL before use. Clean equipment using TAL SOLVENT S.

Spray Grade

Please contact TAL for advice if spray application is required.

Limitations

Will change color when exposed to direct sunlight.
Will not accommodate movement cracks.
Do not be 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.
Apply only on to slabs that have a waterproofing system installed in order to prevent blistering due to osmosis.
Protect from chemical and water spillage until fully cured.

