

Solvent free clear epoxy sealer for concrete floors

Product Description

TAL EPOXYSEAL SF is a solvent free clear two component epoxy sealer for application to concrete floors to increase abrasion resistance and provide an easy to clean hygienic sealed surface that is resistant to pedestrian traffic and light duty polymer wheeled trolleys.

Advantages

- Increases abrasion
- Easy to clean
- Resists common cleaning chemicals
- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Formaldehyde free
- Low viscosity
- Solvent free
- Penetrating

Specification Compliance

SCAQMD Rule 1113
LEED NC2009 IEQ 4.2

Laboratory Test Data

Property	Typical Results
Volume solids	100%
Specific gravity	1.05 ± 0.05

Application Properties

	10°C	20°C	30°C
Pot life	180 mins	90 mins	45 mins
Recoat time	24 to 48 hours	16 to 32 hours	8 to 24 hours
Full cure	14 days	7 days	5 days

Volatile Organic Content

VOC = 0 g/L

Theoretical Coverage

10m² per liter per coat.
Actual coverage will depend on wastage and surface profile and can be up to 30% or more higher than theoretical coverage.

Packaging

5 and 15 liter packs

Shelf Life

18 months when stored below 30°C under shade in a dry environment.

Application Guidelines

Epoxy coating and floor systems 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

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. Prepare the surface using a light surface grind to produce a slight texture.

Moisture Testing

The concrete slab should be tested for moisture with the Rapid RH system following the procedure in ASTM F2170. If the humidity reading is greater than 80% then conduct moisture vapor emission rate (MVER) testing using the procedure in ASTM F1869. (Both test kits are available for purchase from TAL). If the MVER is under 5lbs/1000ft²/24h use TAL EPOXYSEAL SF. If the MVER is 5 to 10lbs/1000ft²/24h use TAL EPOXYSEAL MT PRIMER. If the MVER is over 10lbs/1000ft²/24h use TAL EPOXYSEAL WD.

Substrate Strength

The surface strength of the substrate should be sufficient to restrain any stresses which occur during the setting and hardening of the resin floor. Substrates that have a pull off strength of 1.5 MPa when tested to BS EN 13892-8 or ASTM D 4542 or a rebound hammer value in excess of 25 when tested to BS EN 12504-4 or ASTM C805. (Test equipment for these tests are available to purchase or rent from TAL).

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Mixing

Mix using the following technique. Add the hardener component into the base component 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 two coats of 100 micron (4mils) wet film thickness using brush, roller or airless spray. When using airless spray, tip size should be 0.015" to 0.0018" at a pressure of 2200psi. Allow to dry before over coating. Ensure that no ponding occurs and that it is not applied too thick. If the first coat is left longer than the recoat time below then wipe the cured surface with TAL RC1. Apply second coat immediately the surface is dry. For application to polished concrete surfaces contact TAL for further information.

Maintenance

The sealed surface can be maintained to extend its surface life and repair any scratches by treating the surface with TAL POLISHCOAT every 6 months. High traffic areas may require frequent application.

Limitations

Will not accommodate movement cracks.
Do not expose to temperatures in excess of 60°C.
Do not expose to water or other liquids until fully cured.
Do not use if to be exposed to direct sunlight.
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.

