

## Solvent free clear coating, sealer and binder

### Product Description

TAL CRYSTALCLEAR is a clear high performance, solvent free, epoxy coating/sealer and is also suitable for use as a binder and sealer for decorative floor systems.

### Advantages

- Meets SCAQMD Rule 1113 & LEED VOC Limits
- Formaldehyde free
- High abrasion resistance
- VOC compliant
- Easy to clean and maintain

### Uses

- Decorative walls and floors
- Binder for coloured aggregate floor and wall systems
- Sealer for epoxy and polyurethane systems

### Specification Compliance

SCAQMD Rule 1113  
LEED NC2009 IEQ 4.2

### Laboratory Test Data

Property	Typical Results
Compressive strength (ASTM C309)	>60MPa
Flexural strength (ASTM C580)	>30MPa
Impact resistance (ASTM D2794)	No cracks
Bond to concrete (BS 1881)	> 2MPa

### Application Properties

Dry film thickness	100 microns to 5mm
Pot life	60 minutes at 25°C
Recoat time	24 hours at 25°C
Full cure	7 days at 25°C

### Volatile Organic Content

VOC = <20 g/L

### Colours

Clear

### Theoretical Coverage

1m<sup>2</sup> per liter at 1mm.

### Packaging

5 and 15 liter packs

### Shelf Life

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

### Installation Guidelines

#### Application

TAL CRYSTALCLEAR should be applied by experienced personnel. TAL provides detailed method statements for 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. 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 or other suitable filler. The moisture content of the concrete should be less than 5%.

The concrete slab on which the coating is to be applied should not be polished and have a waterproofing system installed. No preparation is required when applying as a topcoat for epoxy's or polyurethanes provided it is applied in the over coating window.

#### Mixing

Mix TAL CRYSTALCLEAR using the following technique. Add the hardener into the base and mix using a slow speed drill with an Coating Mixer Paddle for 3 minutes until both components have fully dispersed and are uniform. Be sure to rotate the mixer. Mix only full packs.

#### Application

Apply using a rake or a roller. Recoat within 24 hours at 25°C or as required. Clean equipment using TAL SOLVENT S.

#### Slip Resistant Finish

A slip resistant finish can be achieved by broadcasting TAL AS GRAINS on to the surface of the first coat while still wet. The grain size (Fine, medium or coarse) and broadcast rate will be dependant on the surface texture required by will generally be in the range of 0.5 to 2kg/m<sup>2</sup>. TAL Colored aggregate can also be used to provide a decorative floor.

#### Limitations

May change color in when exposed to direct sunlight.

Do not apply below 5°C

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.

