

# Epoxy T-800

## T-800

### Premium Clear Epoxy Resin



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### Description

**Epoxy T-800** is a two component low viscosity, Premium Clear Epoxy with excellent performance against UV exposure, exclusively developed and manufactured by Sindec Chemicals.

It is ideal and suitable for most applications including floors, countertops, worktop, uses are endless applications at low thickness

This is a safe, phenol free product

### Appearance

Clear Epoxy Resin with a gloss finish

### Applications

The different options depend upon the application choices, fillers and pigmentations options:

- Decorative Metallic Epoxy Floors
- Clear Coat Epoxy
- Interior Spaces
- Artworks
- As Design Layer for the SINDEC Metallic Epoxy Floor System
- More Applications

### Environmental Conditions

**Epoxy T-800** should not be used or applied at temperature outside of at range of  $<10^{\circ}\text{C}$  to  $>25^{\circ}\text{C}$  \*temperature control will be required if below this range.

Otherwise, this will effect the cure period, surface finish and strengths. Surface temperature must be at least  $3^{\circ}\text{C}$  above the dew point. Air temperature should be above  $5^{\circ}\text{C}$  and relative humidity at less than 40%,

Maximum application temperature is  $40^{\circ}\text{C}$ . Best conditions are  $15^{\circ}\text{C}$ - $25^{\circ}\text{C}$ , these conditions should be maintained during all the curing time. Application should be done with plenty of air ventilation.

### Mixing

Pour part B into part A, stir and completely blend both components using a low-speed mixer using paddle mixer for a minimum of 3 minutes @ 300-400 rpm. Transfer mixed resin into a clean new bucket and mix for a 1 further minute.

### Product Application

Apply by pouring, roller or brush to achieve required depths and finish. Pure resin requires roller or rubber spreader or squeegee. Resin mixed with fillers requires application by metal spreader or trowel.

### Features & Benefits

- Added UV stabilizer's
- Phenol free
- Low viscosity
- Clear transparency
- Self Smoothing

### Substrate Requirements

Inadequate preparation will lead to loss of adhesion and failure. In coatings, there is a tendency for the finish to mirror imperfections in the substrate. Grinding or light self-contained shot blasting is therefore preferred.

If in doubt, apply a test area first.

Requirements as follows:

- Flat and Smooth.
- Compact and Cohesive (Pull off test must show a minimum resistance of  $1.4\text{N/mm}^2$ ).
- Minimum compressive strength of  $25\text{N/mm}^2$ .
- Even and regular surface.
- Free from cracks and fissures. If any, they must be previously repaired (we recommend using Sindec Epoxy Crack Filler).
- Clean and dry, free of dust, loose particles, oils, organic residues, laitance and contaminants.

### Storage

Materials should be stored in their original, unopened containers in a dry weatherproof building maintained at  $10^{\circ}\text{C}$  to  $30^{\circ}\text{C}$  in dry conditions and away from walls. Consignments should be used in order of batch number. Protect from frost.

### Reapplication

Normally possible after 24 hours.

### Return To Service

Foot traffic allowed 24-48 hours. Heavy traffic hardness is achieved after 7 days (approximately) Caution: Contact with water when not fully cured may lead to white stains.



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## Technical Information

### PRODUCT INFO BEFORE APPLICATION

	Component A	Component B
<b>Chemical Description</b>	Epoxy	Polyamine Mixture
<b>Physical State</b>	Liquid	Liquid
<b>Packaging</b>	Metal Container	Metal Container
<b>15kg kit</b>	10kg	5kg
<b>6kg kit</b>	4kg	2kg
<b>3kg kit</b>	2kg	1kg
<b>Non-volatile content (%) approximate</b>	>95%	98%
<b>Chemical Description</b>	Epoxy	Polyamine Mixture
<b>Colour</b>	Colourless	Colourless
<b>Density</b>	Temp (°C)    Density (g/cm3)	Temp (°C)    Density (g/cm3)
	25            1.14	25            1.05
<b>Viscosity</b>	Temp (°C)    Density (g/cm3)	Temp (°C)    Density (g/cm3)
Bookfield approximate	25            1500 - 3500	35            83 25            150 15            320 5            800
<b>VOC</b>	<10g/L, <2%	20g/L, <2%
<b>Mixing Ratio</b>	A = 100 by weight	B = 50 by weight
<b>Mixture Properties</b>	1.10 g/cm3 at 23°C 1000 mPa.s at 23°C	
<b>Use Before</b>	12 months after manufacturing date	
<b>Pot Life</b>	Temp (°C)	Pot Life (100 g, min)
	20	30
<b>Storage</b>	Keep between 15°C and 30°C. Component A may crystallize if stored for protracted periods under certain conditions. If this occurs, it can be restored to its original conditions by heating it to 70-80°C and stirring it thoroughly.	
	Shelf Life, 12 Months (If unopened)	

### FINAL PRODUCT INFORMATION

<b>Final State</b>	Rigid, Glossy, Homogeneous material
<b>Colour</b>	Clear Resin, if pigmented, colour applied will be showcased in the material.

<b>Hardness (Shore)</b>	80 Shore D hardness after 7 day >58°
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<b>UV Resistance</b>	Undergoes slight ambering under sunlight and UV exposure. No mechanical properties are affected. It is not evident for most colours.
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<b>Use Temperature</b>	Stable up to 80°C
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Chemical Resistance	Chemical	Result
	Vinegar (7 days)	5
	Sulphuric Acid 96% (24hr)	2
	Hydrochloric Acid 5% (24hr)	4

## Sealing

Compatible with a Matt/Satin/Gloss **PolyEco Top Coat** for best protection of surface. Apply 24 hours after application

## Disposal of Containers

Empty containers must be handled with the same precautions as if they were full. Treat empty containers as hazardous waste, and transfer them to an authorized waste manager. If the containers still have some material left, do not mix with other product before considering the risk of potential dangerous reactions. Never mix in volumes larger than 5 litres in order to prevent a dangerous heat evolution

## Technical Advice

For further information on this or any other Sindec product, please contact our office.

## Health & Safety

Before using this product, please ensure that you have received and read the product Safety Data Sheet. Refer to hazard labelling on the product. Wear gloves and avoid contact with skin and eyes.

## Additional Information

The information contained in this document, and all further technical advice given is based on our present knowledge and experience.

However, it implies no liability or legal responsibility on our part.

In particular, no warranty or guarantee of product performance in the legal sense is intended or implied as the conditions of use and the competence of any labour involved in the application are beyond our control. Properties and coverage rates shown are for guidance purposes only. The user of the product must determine the product's suitability for the intended purpose.

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