

# ShaliFloor TC 2ARE

Two Component Acid Resistant Epoxy Floor Coating



STP Limited

## Description

**ShaliFloor TC 2ARE** (Formerly known as ShaliPoxy AR) is a two component, room temperature cured, 100% solid epoxy system designed to protect surface against severe chemical attack.

## Characteristics

Finish	Semi gloss	Pot Life, 30 °C,	30 – 45 minutes
Surface Dry, 30 °C	3 – 4 hrs		
Curing Time		Theoretical Coverage	350 - 400 g / m <sup>2</sup> in 2 coats.
• Foot Traffic	24 hrs		
• Vehicle Traffic	72 hrs		
• Full Cure	7 days		
DFT	250 – 275 microns	Colour	Light Grey, Dark Grey

\* Depending upon surface condition.

## Chemical properties

Sulphuric Acid 5%	Semi gloss	Hydrochloric Acid 10%,	Excellent
Sulphuric Acid 10%	3 – 4 hrs	Hydrochloric Acid 20%	Excellent
Sulphuric Acid 30%	Excellent	Hydrochloric Acid 35%	Very Good
Chromic Acid 10%	Excellent	Chromic Acid 20%	Very Good
Nitric Acid 10%	Excellent	Phosphoric Acid 10%	Excellent
Nitric Acid 20%	Excellent	Phosphoric Acid 30%	Excellent
Acetic Acid 30%	Unsatisfactory	Butyl Acetate	Excellent

## Application

- Protects concrete surfaces from chemical attack.
- Used around chemical storage tanks and pumps to protect floors.
- Can be applied over metal surfaces subjected to acids and bases.

## Advantages

- Easy to apply with a brush or roller.
- Excellent adhesion to concrete surfaces.
- Resists various acids (See list above).
- Protects concrete surfaces from chemical attack.
- Provides monolithic surface with good aesthetics.

## Application Methodology

- **Concrete Surface:** The moisture content of the concrete substrate should be below 5%. Concrete surface must be even, and free of potholes. All oil, dirt, debris, paint and unsound concrete must be removed. Any repair works required should be carried out before coating. Clean the surface with solvent prior to coating.
- **New Steel:** Clean the surface with Shot Blasting to a minimum surface profile not exceeding 65 microns
- **Old Steel:** If blasting is not practical use mechanical tools along with Manual chipping and wire brushing to remove loose rust. Excessive burnishing of steel is to be avoided. Remove the dust from the surface thoroughly. Remove grease, oil and other contaminants preferably by using STP thinner.

- For Steel Surfaces anticorrosive primers to be applied. On concrete surfaces ShaliPrime LBHB 2E to be applied.
- Stir the Component A and Component B separately. If settling is observed in the Component A, loosen the settled material with the help of hand stirrer followed by power driven stirrer for quick homogenous mixing. Mix hardener gradually into the base under continuous stirring.
- After proper mixing of Comp A and Comp B, mixed material can be applied by brush or roller on the prepared surface. As the coating is very thick in consistency, it is always preferred to use stiff bristle brush.

### Limitations

- Do not apply **ShaliFloor TC 2ARE** on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75 %.
- Do not apply **ShaliFloor TC 2ARE** to asphalt, weak or infirm concrete, unmodified sand / cement screeds, PVC tiles or sheets, or substrates known to move substantially e.g. steel walkways.
- Do not install **ShaliFloor TC 2ARE** at temperature  $< 10^{\circ}\text{C}$  or  $> 45^{\circ}\text{C}$ .
- There may be changes in shades of **ShaliFloor TC 2ARE** if exposed.

### Cleaning & Maintenance

- Clean all tools immediately after use with xylene. Do not allow material to harden.
- Service life of a floor will be considerably extended by good housekeeping. Regular cleaning may be carried out using a rotary scrubbing machine with a warm miscible cleaning agent at temperature up to  $50^{\circ}\text{C}$ .

### Health & Safety

- The product should not come in contact with the skin and eyes, or be swallowed.
- Ensure adequate ventilation and avoid inhalation of vapours.
- Wear suitable protective clothing, gloves and eye protection.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
- If swallowed seek medical attention immediately - **do not** induce vomiting

### Packing

Available in 4 kg unit consisting of Component A & B.

### Storage

Store in a cool dry place, under shed, away from heat.

### Shelf Life

6 months in original unopened sealed condition.

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