



## PolyPoxy TC 2K AR

Two Component Acid Resistant Epoxy Floor Coating

### DESCRIPTION

PolyPoxy TC 2K AR is a two component, room temperature cured, 100% solid epoxy system designed to protect surface against severe chemical attack.

### TECHNICAL DATA

Pot Life at 30 °C	30 – 45 minutes	Finish	Semi Gloss
Surface Dry, 30 °C	3 – 4 hrs	Colour	Light Grey, Dark Grey
DFT	250 – 275 μ		
Curing Time at 30 °C		Coverage gms / sqm	350-400 depending on surface conditions in two coats
Foot Traffic	24 hrs		
Vehicle Traffic	72 hrs		
Full cure	7 days		

### CHEMICAL RESISTANCE

Sulphuric Acid 5%	Excellent	Hydrochloric Acid 10%	Excellent
Sulphuric Acid 10%	Excellent	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

### APPLICATIONS

Typical applications are:

- Protects concrete surface 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 smooth monolithic surface with good aesthetics.

## APPLICATION METHODOLOGY

- **Concrete Surface:** The moisture content of the concrete substrate should be below 5%. Concrete surface must be sound and free from 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 oil and greases and other contaminants preferably by using **POLYGON Thinner**
- For steel surfaces anticorrosive primer to be applied. On concrete surfaces **PolyPrime Epoxy** to be applied
- Stir the Component A and Component B separately. If setting 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 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.



## **LIMITATION**

- Do not apply PolyPoxy TC 2K AR on surfaces known to, or likely to, suffer from rising dampness, potential osmosis problems or having relative humidity greater than 75%
- Do not apply PolyPoxy 2K AR 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 apply PolyPoxy 2K AR at temperature  $< 10\text{ }^{\circ}\text{C}$  or  $> 45\text{ }^{\circ}\text{C}$
- There may be changes in shaded of PolyPoxy 2K AR if exposed.

## **CLEANING AND MAINTENCE**

- Clean all tools immediately after use with xylene. Do not allow material to harden
- Service life of 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  $50\text{ }^{\circ}\text{C}$ .

## **HEALTH AND SAFETY**

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

## **PACKAGING**

Available in 4 kgs units consisting of Component A & B.

## **STORAGE**

Must be stored in original packing at ambient temperature, dry place under shed away from heat.

## **SHELF LIFE**

If stored in original unopened sealed under the above conditions, it has a shelf life of 6 months.