

# Polypoxy



**TO SEAL & PROTECT**

## Technical Data Sheet

### DESCRIPTION

Polypoxy is a solvent free three component screed system consisting of Epoxy resin (A) hardener (B) and quartz silica filler (C). It has excellent mechanical properties, high resistance to wear and wide variety of chemicals. This system is designed as a heavy duty topping for industrial floor. It can be applied in thicknesses from 5mm to 20 mm.

### PRIMARY APPLICATIONS

To provide a heavy duty floor for:

- ▶ Chemical plants.
- ▶ Warehouses & workshops.
- ▶ Dairies & food processing Plants.
- ▶ Heavy engineering industrial floors.
- ▶ Metal treatment plants.
- ▶ Substations & battery rooms.

### ADVANTAGES

- ▶ Impact and abrasion resistant.
- ▶ High compressive and tensile strength.
- ▶ Excellent resistance to chemicals.
- ▶ High strength and proven durability.
- ▶ Non tainting.
- ▶ Solvent free.

### TECHNICAL PROPERTIES

Compressive Strength at 7 days	: 75 N/mm <sup>2</sup>
Flexural strength at 7 days	: 19 N/mm <sup>2</sup>
Tensile Strength at 3 days	: 16 N/mm <sup>2</sup>
Bond Strength	: > 22 N/mm <sup>2</sup>
Abrasion Resistance (Taber cycle)	: < 2mg/1000 cycles
Indention Characteristics	: No indention from a height of 2m
Pot Life at 350 C	: 45 minutes
Initial Cure at 350 C	: 18 hours
Full Cure at 350 C	: 7 days
Density	: 2 g/cc

## CHEMICAL RESISTANCE

Hydrochloric Acid 20 %	: Excellent
Tartaric acid 10 %	: Excellent
Sodium Hydroxide 50 %	: Excellent
Sulphuric Acid 10 %	: Very Good
Diesel / Petrol	: Excellent
Lactic Acid 10 %	: Very Good
Phosphoric Acid 10%	: Very Good
Nitric Acid 100 %	: Very Good
Hydrocarbon 100 %	: Very Good

## COVERAGE

2 kg/m<sup>2</sup> @ 1mm thickness

## APPLICATION

### Surface preparation

The new concrete surface to be treated must be at least 28 days old with less than 5% moisture content. We recommend captive shot blast as the most effective surface preparation. The concrete should be sound and any cracks, potholes or depressions is to be repaired with a suitable product from the Polycrete repair range and allowed to cure. Before application of Polyepoxy make sure that the prepared surface is absolutely dry.

### Priming

Prime the prepared surface with Polyprime EP @ 4-5 m<sup>2</sup>/lt. and allow to dry.

### Mixing

Mix part A and B separately for 2 minutes using a heavy duty slow speed drill (300-400rpm) fitted with a paddle. Pour Part B (hardener) to the Part A (base) and mix well for 30 seconds until a uniform consistency is obtained. Then add Part C (filler) slowly to the mixed base and hardener and continue mixing for further 3 - 5 minutes until a uniform lump free consistency is obtained. Place the mixed material immediately.

### Placing

The epoxy screed shall be applied when the primer is still in 'tacky' stage. Discharge material from the mixer and place on to the floor. Spread and compact the mixed material with a wooden trowel to get a uniform thickness and close the surface with a steel trowel.

### Cleaning

Clean the equipments immediately after use with a suitable solvent cleaner.

## COVERAGE

Polyepoxy	: 1lt./m <sup>2</sup> /mm thickness
Polyprime EP	: 4-5m <sup>2</sup> /lt.

## PACKING

Polyepoxy	: 10 lt. composite pack
Polyprime EP	: 1lt. & 5 lt. pack

## **STORAGE & SHELF LIFE**

Store resin components in air conditioned area at less than 25°C. Filler can be stored in covered area. Shelf life under these conditions will be 12 months.

## **HEALTH AND SAFETY**

As with all construction chemical products, caution should always be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.