

# Polypoxy EC

## Epoxy based cementitious repair system

Three component repair system for concrete repair applications prior to application of floor coating systems.

### CHARACTERISTICS

- ▶ Easy to use
- ▶ Can be applied from 3 mm to 10 mm
- ▶ Good adhesion with the concrete & no primer required
- ▶ Environment friendly
- ▶ Economical
- ▶ Can be troweled to a smooth finish
- ▶ Can be applied on vertical surface



### DESCRIPTION

Polypoxy EC is an easy to use, three component epoxy based cementitious repair system used for concrete repair applications prior to application of floor coating systems. It is designed for filling cracks, minor imperfections on concrete surfaces and doing patch repairs.

### FIELDS OF APPLICATION

- As concrete floor repair: Repairing damaged concrete, filling of cracks
- For repair of concrete floor before application of floor coating systems in warehouse, carpark areas, hospitals, kitchen, aircraft hangers & auxiliary areas, packing & storage areas etc.

### APPLICATION INSTRUCTION

#### Surface Preparation

The concrete surface should be thoroughly cleaned of all loosely adhering particles, laitance, dust, oil, grease, paint, etc. Grit / captive blasting and mechanical grinding is recommended for removing all surface contaminants.

#### Mixing

Pour the entire contents of Part B (Hardener) into Part A (Base) and mix thoroughly for a minute with a heavy duty paddle mixer fitted to a high torque slow speed (300-400 rpm) drill to get a homogenous mix. Then add Part C (Powder) slowly into the mixture and further mix continuously until a uniform consistency is achieved. As the products are supplied in pre-weighed packs, part mixing is



TDS\_Polypoxy EC\_GCC\_0519

not recommended, as the cured product will not achieve its full properties even if there is a small variation in the mixing proportions.

#### Application

Application can be carried out by a steel trowel or putty knife or scrapper. Press firmly the mixed mortar into the area to be filled to ensure proper adhesion. The area repaired with Polybit Polypoxy EC can be over coated with any epoxy or polyurethane coating after it achieves its initial cure.

### CLEANING

Clean all tools with Polysolvent immediately after use. Hardened materials can be removed mechanically only.

### COVERAGE

Polypoxy EC 2kg/ m<sup>2</sup>/ mm thickness

### STORAGE & SHELF LIFE

Store in a cool, dry place and keep away from all sources of heat and sunlight. In tropical climates, store in air condition rooms. The shelf life is upto 12 months in un-opened condition and if stored as per recommendations. Excessive exposure to sunlight, humidity and UV will result in the deterioration of the quality of the product and reduce its shelf life.

## HEALTH & 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.

## SUPPLY

Polypoxy EC	25kg & 10kg kit
Polysolvent	5L & 20L pails

## TECHNICAL SPECIFICATION

PROPERTIES	VALUES	TEST STANDARDS
Density [g/cc]	2.05±0.05	ASTM D 1475
Color & appearance	Grey	-
Pot life @ 25°C, [minutes]	60	-
Compressive strength @ 7 days, [N/mm <sup>2</sup> ]	40	ASTM C 579
Flexural strength @7 days, [N/mm <sup>2</sup> ]	7	ASTM C 580
Initial cure, [hours]	10	
Full cure, [days]	7	
Application temperature [°C]	5 to 35	

*All values given are subject to 5-10% tolerance*

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards. The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23°C and 50 % relative air humidity at laboratory conditions unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.