

Chemical Resistant Non Toxic Epoxy Resin Based Coating

• DESCRIPTION

Polypoxy CR is a non toxic, solvent free, high build epoxy resin protective coating which provides a chemical resistant surface for concrete and steel. It is supplied as a 100% solid, two component system comprising a pigmented base and hardener.

Polypoxy CR requires only on site mixing, and is applied as a protective and chemical resistant coating.

• TYPICAL APPLICATION

- Internal protection of concrete or metallic storage tanks containing potable water, chemicals, oil and fuel.
- Chemical resistant floor and wall coating for manholes, sewerage lines, manufacturing units, breweries.
- Decorative and protective coating in laboratories, refineries, power stations, hospitals, desalination plants and other liquid containment areas.
- For coating in oil refineries, paper mills, power station, garages, sugar refineries etc.

• FEATURES

- Highly chemical resistant.
- Non toxic.
- Fast application – can be applied by brush or roller.
- Solvent free.
- Water proof and protective coating.
- High build coating.
- Hygienic and easy to clean.

• TECHNICAL DATA

Density	: 1.45 g/cc
Colours	: Grey (other colours on request)
Pot life at 35°C	: 30 minutes
Tack free time	: 6 hours at 35°C
Initial curing	: 12 hours at 35°C
Final curing	: 4 days at 35°C
Bond strength (ASTMD 4541)	: >2.5N/mm ²
Toxicity (BS 6290)	: Non toxic
Solid content	: 100%

COVERAGE

0.3 lt/m² for 300 micron dry film thickness.

• CHEMICAL RESISTANCE

Polypoxy CR is resistant to the following alkalis, acids and other chemicals:

- Sulphuric acid (50%)
- Hydrochloric acid (50%)
- Lactic acid (10%)
- Nitric acid (10%)
- Sodium Hydroxide (50%)
- Diesel oil
- Battery water
- Fuels
- Vegetable oil
- Formaldehyde (40%)
- Aviaion fuel
- Sea water

• APPLICATION PROCEDURE

Surface preparation

New concrete surfaces to be coated must be 28 days old. The concrete should be sound and any cracks and pot holes must be repaired with a suitable product from the Polycrete repair range and allowed to cure. The surface should be free from dust, dirt, curing compound and laitance. Clean the surface with Polyclean and wash with water. Prior to the application of the coating make sure that the surface is completely dry.

Priming

Prime the prepared surface with **Polyprime EP** and allow to dry.

Mixing

Mix part A (resin) and part B (hardener) separately for one minute using a slow speed drill fitted with a paddle. Then add Part B into Part A and mix thoroughly for 2-3 minutes to achieve uniform consistency. Apply immediately after mixing.

Application

Polyoxy CR may be applied by brush, squeegee, roller or industrial sprayer. Following application, the coating must be back rolled to reduce surface irregularities and improve bonding.

• CLEANING

Clean all equipments with a solvent immediately after use. Hardened materials can be removed mechanically only.

• PACKING

Polyoxy CR : 3.5 lt.kit

Polyprime EP : 1lt. and 5 lt.kit

• STORAGE

Store under cover, out of direct sunlight and protect from extreme temperatures. In tropical climates the product must be stored in an air-conditioned environment.

• SHELF LIFE

Shelf life is up to 12 months when stored as per recommendations.

• 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.

Last revised May 2008



The information given in this data sheet is based on our current knowledge of the product when properly stored, handled and applied. We cannot guarantee that the product will be suitable, effective or safe when used for any purpose other than its stated uses.
To the extent that it is lawful, we exclude warranties implied by law and limit our liability to the cost of replacing the product. We accept no responsibility for loss or injury caused by improper use, incompetent preparation, inexperienced or negligent application, or ordinary wear and tear.
Service or advice given by our staff should not amount to responsibility for the project - since the owner, or their contractor is responsible for procedures relating to the application of the product.

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