

Solvent Free Epoxy Resin Floor Coating

• DESCRIPTION

Polypoxy FC is a versatile two component, solvent free epoxy resin floor coating that provides a durable and impervious floor which is easy to clean. **Polypoxy FC** provides excellent resistance to a wide range of chemicals. Suitable for thicknesses from 150 - 500 microns .

• USES

Polypoxy FC can be applied as a floor coating for:

- Warehouses.
- Chemical plants.
- Terminals.
- Showrooms.
- Health care manufacturing facilities.
- Parking and car wash areas.
- Workshops, fabrication areas etc.

• ADVANTAGES

- Excellent resistance to a wide range of chemicals.
- Hygienic - Provides an impervious surface which is easy to clean.
- Durable and hardwearing.
- Easy to apply.
- Available in a wide range of colours.
- Solvent free - therefore odourless and can be applied on areas having less ventilation.

• TECHNICAL PROPERTIES

Solid content	: 100%
Pot life at 20°C	: 30 minutes
Touch dry time at 20°C	: 6 hours
Over coating time at 20°C	: 24 hours
Compressive Strength	: > 65 N/mm ²
Flexural strength	: > 35 N/mm ²
Tensile Strength	: > 15 N/mm ²
Initial hardness at 20°C	: 24 hours
Full cure at 20°C	: 7 days
Shore D Hardness (ASTM D 2240)	: 80
Density	: 1.6 g/cc

• CHEMICAL RESISTANCE

Resistance to chemicals

Alkalis	: Good
Ammonia	: Good
Hydrochloric Acid 10 %	: Good
Acetic Acid 5%	: Good
Battery Acid	: Good
Oil	: Good
Gasoline	: Good
Salt Water	: Good
Toluene	: Good
Xylene	: Good
Lactic acid 10%	: Good
Citric acid 10 %	: Good

• APPLICATION PROCEDURE

Surface preparation

Surface preparation plays a vital role in determining the durability of any floor coating. Therefore proper care should be taken while executing it. The concrete should be a minimum of 28 days old before any coating or toppings are applied. The surface should be free from dust, dirt, curing compound, oil etc. We recommend captive shot blasting as the most suitable preparation. Cracks and pot holes should be repaired with a suitable product from the **Polycrete** range of repair systems and allowed to cure. Ensure that the moisture content in the substrate is below 5%.

Priming

On most new concrete floors priming may not be required, however for the best adhesion, prime the prepared surface with **Polyprime EP** and allow to dry. For application procedure please refer to the **Polyprime EP** data sheet.

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 FC may be applied by brush, roller or industrial sprayer. When the first coat achieves initial cure (i.e. after 24 hours) apply second coat at right angles to the first. After application the coating must be back rolled to reduce surface irregularities and improve bonding. Care should be taken to ensure that a continuous film is achieved. For a non slip finish, broadcast **Non slip aggregate no -8** into the first coat @ 2 kg/m² and remove excess prior to application of second coat.

Cleaning

Clean all equipment with a suitable solvent cleaner. Hardened materials can be removed mechanically only.

• COVERAGE

5 m²/lt per coat for 200 micron Dry Film Thickness.

• PACKING

4 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, instead call for medical assistance immediately.

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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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