



## **EPO100G – GLAZE COATING KIT**

### **DESCRIPTION**

This Industrial Floor epoxy is a 100% solids, two-pack cycloaliphatic amine cured epoxy resin. USDA acceptable (for incidental food contact) epoxy flooring resin designed as a stand-alone topcoat and as a binder for non-skid surfaces. It is non-blushing and non-water spotting, high gloss and self-levelling.

Designed for use in a wide range of commercial environments where a lasting solution to floor maintenance problems is required. The exceptional resistance to a wide variety of chemical spillage and fumes makes this product ideal for use in high traffic commercial environments.

### **USES**

- Food processing industry
- Chemical/pharmaceutical industry
- Power stations
- Plastics industry
- Laboratories and rooms subject to radiation
- Clean rooms, exhibition halls and showrooms
- Demonstration areas and training rooms
- Washrooms, cloakrooms
- Wet and dry process areas i.e. Beverage industry, bottling plants, dairies, meat processing plant etc.
- Workshops and factories
- Warehouses, loading bays and ramps
- Hangars
- Metallic decorative flooring systems

### **FOR USE ON MINERAL-BASED SUBSTRATE SUCH AS:**

- Concrete
- Mortar
- Stone
- Epoxy Modified Mortars



## FEATURES

- Tenacious bond to most substrates
- High mechanical properties
- Good abrasion resistance
- Good chemical resistance
- High durability
- Can be coloured
- Solvent free
- Joint less
- Easy and fast to apply
- Easily cleaned and maintained
- Waterproof
- Under direct sun light there may be some discolouration and colour variation; this has no influence on the function and performance of the coating.
- Ultra low yellowing

## WEATHERABILITY

Some chalking and yellowing may occur on exterior exposure if not top coated with a suitable UV resistant coating such as 500F. This does not affect the chemical structure of the product.

## PHYSICAL PROPERTIES

Compressive Strength:	ASTM D695 12,000 psi
Tensile Strength:	ASTM D638 3,900 psi
Elongation at Break:	ASTM D638 7.00%
Abrasion Resistance:	
CS-17 wheel, 1 kg load:	ASTM D4060 0.10gm loss
<b>Water Absorption:</b>	D570 0/07% (2-hour boil)
Flexural Strength:	ASTM D790 7,800 psi
Shore D Hardness:	ASTM D2240 89
Heat Distortion Temperature:	ASTM D649 50 deg.C
Bond Strength to Concrete:	100% Concrete failure



## RESISTANCE TO CHEMICAL SPILLS (7 days at 25deg.C):

Ammonia Solution (20%)	Sodium Hydroxide (30%)
Sulphuric Acid (30%)	Kerosene
Lactic Acid (5%)	Aviation Fuels
Sodium Chloride (50%)	Petrol
Tannic Acid	Hydrochloric Acid (20%)
Acetic Acid (5%)	Toluene

## MIXING INSTRUCTIONS

Mix 2 parts 'A' with 1 part 'B'.

Mix thoroughly using a power drill with paint mixing attachment for 2 minutes, ensuring sides are well mixed

## COVERAGE

0.3 To 1.0 Kg/M2 per coat depending on application.

Normally 2 to 3 coats are required, film thickness will be approximately 300microns per coat.

## SURFACE PREPARATION

Surfaces must be clean, dry and free from all traces of loose material, old coatings, curing compounds, release agents, laitance, oil and greases etc. Substrate compressive strength should be at least 25MPa, cohesive bond strength at least 1.5MPa and with moisture content below 4%.

Structurally unsound layers and surface contaminants must be mechanically removed by abrasive blasting, blast-tracking or grinding. Substrates heavily impregnated with oil must be cleaned by torching or suitable solvent cleaning methods. To check that all traces of oil have been completely removed, sprinkle a few drops of water over the surface. If all water is quickly absorbed, the surface is sufficiently oil and grease free. If water forms into globules that remain on the surface, further thorough treatment of the substrate is necessary.

When used as a self-levelling floor topping will not profile irregular substrates. For profiling defects on horizontal surfaces a suitable patching mortar is required. The patching mortar can be of epoxy or cementitious base depending on the scope, particular conditions and requirements of the work.



## APPLICATION

Mix EPO100G Kit epoxy base (Part A) with the EPO100G Kit curing agent (Part B). Use a mechanical mixer to ensure thorough mixing. The mixing ratio is 2/1 (base/curing agent) by volume. Make sure that both components are thoroughly mixed along sides and bottom of container. Unmixed components will result in 'hot spots' that will never cure. EPO100G Coating Kit does not require a 'sweat-in' or induction time and the mixed components should be used immediately.

Pot life for a 10L batch is approximately 40 minutes at 25 deg.C, so mix only the amount of epoxy that can be easily applied within that time limit.

Apply using a brush, or roller. Use a lint free epoxy roller to apply the product.

For thicker applications use notched squeegee or trowel and let self-level.

Note that exposure to sunlight and UV radiation can result in discolouration and slight chalking. This will have no adverse effect on the protective function of the coating. EPO100G Coating Kit can be top-coated with a UV blocking coating absorber such as Flexithane (Non Yellowing Urethane), this will prevent chalking and discoloration.

## INTERCOAT ADHESION

Re-coat within 48 hours without needing abrasion.

TDG Codes            Hardener    UN 1760

                          Compound UN 1993

## IMPORTANT NOTICE:

Read the MSDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact the Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

## PRODUCT DISCLAIMER:

This Technical Data Sheet (TDS) summarises to the best of our knowledge the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how you will apply the product, including if it is being used in conjunction with any other products, the type of surfaces and the manner in which the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. All Purpose Coatings does not accept any liability either directly or indirectly for any losses suffered that arises from the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.