

# PAINTCOR

SUPREME QUALITY *Since 1986*

## EPOXIPRIME

### Description and Application

#### CATEGORY

Primer

#### DESCRIPTION

EpoxiPrime has been specially formulated to achieve adhesion of subsequent coats to difficult surfaces like glass, tiles, pools and ponds etc. The latest resin technology has been utilised in EpoxiPrime to produce a product with low environmental impact and a primer capable of forming an osmotic barrier for floor, pool and pond coatings or where required.

#### FEATURES

##### EpoxiPrime is designed to:

- Be used as a primer for difficult surfaces.
- Promote adhesion to epoxy, polyester, glass, tiles and damp (not wet) cementitious surfaces.
- Exceptional Internal strength and adhesion
- Forms an osmotic barrier against moisture

#### NOTE:

1. Floors must have a D.P.C. underneath them if coating is to be successful.
2. If primer or top coat are left to dry longer than the specified times they must be sanded before subsequent coats are applied.
3. When epoxy is used in swimming pools care must be taken to keep PH levels stable. Chlorine should be pre-diluted before being added to the pool.

#### SURFACE PREPARATION AND APPLICATION

##### Non-porous surfaces (Glass, Tiles and Melamine)

- 1.1 Remove all loose or peeling paint, if any.
- 1.2 Wash the surface well to remove all dirt and surface latencies. Tiles and glass must be cleaned with Lacquer Thinners after washing. Allow to dry.
- 1.3 Mask the surface you do not wish to coat, with masking tape.
- 1.4 If coating over old paint (e.g. Epoxy or Polyester etc.), first sand old paint well and remove sanding dust.

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- 1.5 Mix Resin (Part A) with Catalyst (Part B) well. Make sure all catalyst is poured into the resin and well mixed with a flat paddle. Failure to ensure this is properly done, will lead to a primer that will not cure properly. Do not use a broomstick.
- 1.6 Apply 1 thin coat of Epoxy Prime to all surfaces to be coated at a rate of 15m<sup>2</sup> per litre. You have approximately 40 minutes at 25°C to apply the mixed Epoxy Prime before gel time is reached, therefore, only mix as much as can be used in 40 minutes. Epoxy Prime will run if applied too thick.
- 1.7 Allow Epoxy Prime to dry for 6 hours at 25°C but no longer than 24 hours before over coating with Poolcure Epoxy coating (See Poolcure Data Sheet).
- 1.8 Remove masking tape immediately after application of the Primer.

## **SURFACE PREPARATION AND APPLICATION**

### **Over-coating EpoxyPrime with an ACRYLIC or ENAMEL based paint on non-porous surfaces**

- 2.1 Prepare the surface and apply Epoxy Prime as per surface preparation for non-porous surfaces above (1.1 – 1.6).
- 2.2 Allow Epoxy Prime to dry to “tacky” (± 4 hours @ 25°C), you must at least be able to leave a fingerprint on the surface of the still curing primer, then apply 1 coat of high quality adhesion promoted acrylic (water based), good quality Enamel or Polyurethane Alkyd.
- 2.3 Allow 6 hours at 25°C to dry before applying a second top coat.

### **CAUTION:**

Should the primer be left to dry beyond “tacky” (can no longer leave a fingerprint on the surface of the primer), delamination of the non-epoxy top coat from the primer may occur.

### **Using EpoxyPrime as an osmotic barrier – Porous surfaces (Swimming Pools and Ponds)**

Osmoses occur when water migrates through concrete or brick and cement to a sealed surface above, for example: A painted floor with no D.P.C. under the floor or swimming pools and ponds. Pressure from osmosis has been recorded (in the worst cases) at 20mPA, more than enough pressure to destroy the concrete and off course any coatings on its surface. Epoxy Prime has been formulated to tolerate light moisture in the surface it is applied to.

Epoxy Prime, applied at the correct dry film thickness, will act as an osmotic barrier holding the pressure from rising damp back and preventing blisters in the top coat. This is achieved by its adhesion to the concrete being equal to that of the concrete’s internal strength.

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## **SURFACE PREPARATION AND APPLICATION – OSMOTIC BARRIER**

- 3.1 Ensure floor and walls of the swimming pool are free of any dirt, oil, algae or dust. Should algae be present, then treat with Ushevu (algaecide) and remove. (See Ushevu Data Sheet on [www.paintcor.co.za](http://www.paintcor.co.za).)
- 3.2 The surface must be raw and unsealed.
- 3.3 Acid wash the surface well with neat Pool Acid using a nylon bristle broom, rinse well with clean water immediately after use and allow to dry. (Use protective clothing, particle mask and eye protection).
- 3.4 Sand rough areas to smooth. Remove sanding dust.
- 3.5 Repair any damaged areas with a suitable patching compound.
- 3.6 Mask surfaces you do not wish to paint.
- 3.7 Mix Resin (Part A) and Catalyst (Part B) as per point 1.5 above.
- 3.8 Once resin and catalyst have been mixed you have 40 minutes at 25°C to apply Poolcure primer before gel time is reached and you will be unable to apply the product. Reducing the volume of mixed primer and keeping the product cool before application will help slow the gel time down. (Reducing volume – splitting mixed product to roller trays).
- 3.9 Using a long hair roller, apply 1 coat of Epoxy Prime to the surface (floor and wall) at a rate of  $\pm 5\text{m}^2$  per litre but not more than  $6\text{m}^2$  per litre. Allow 6 hours at 25°C to dry or until it can be walked on.
- 3.10 Now apply a second coat of Epoxy Prime to the surface at  $\pm 5\text{m}^2$  per litre but no more than  $6\text{m}^2$  per litre. In order for Epoxy Prime to form an osmotic barrier it is essential that it be applied to the correct dry film thickness, that being  $440\text{g} / \text{m}^2$  (2 x coats at  $4.4\text{m}^2 - 4.5\text{m}^2$  per litre).
- 3.11 Remove masking tape immediately after application of the Primer.

### **IMPORTANT NOTE:**

Should the spread rate go over a maximum of  $5\text{m}^2$  per litre on the surface that you are working on then the following formulation must be adhered to:

440g Epoxy Prime per  $\text{m}^2$ : if your surface is  $50\text{m}^2$  you will require at least 22L of primer. (Spread rate  $0.440\text{ml} / \text{m}^2$ ). Apply all 22L of primer, allowing drying times between coats, to the surface. This will ensure approximately 440g primer per  $\text{m}^2$ .

Allow the final coat of primer to dry for 6 hours at 25°C but not more than 24 hours before application of the first Poolcure Epoxy top coat. Should the primer be allowed to dry for more than 24 hours before application of Epoxy top coats the primer must then first be sanded before Epoxy top coat application. Failure to adhere to these instructions will result in coating failure. (See Poolcure Epoxy Top Coat Data sheet before application).

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## **CAUTION:**

1. Do not apply Epoxy Prime at or below 10°C or allow Epoxy Prime to cure below 10°C with relative humidity above 60%.
2. Wear protective gloves and eye protection. Avoid contact of Epoxy with skin. See SDS (Safety Data Sheets) for further information on [www.paintcor.co.za](http://www.paintcor.co.za).

Drying and curing times are quoted at 25°C. At higher than 25°C drying and curing times will shorten and at lower than 25°C drying and curing times will take longer.

## **Mixing Ratio: Catalyst (Part B) 35.65gms to 100gms of resin (Part A)**

Leaving Epoxy Prime tins in the sun before application will cause the product to warm up, this leading to accelerated drying times, likewise, cooling the product down before mixing will result in extended drying times.

## **GUARANTEE:**

As osmotic pressure can get higher than the force required to destroy concrete, Epoxy Prime cannot be guaranteed unless there is an additional D.P.C. barrier used in the construction of the floor or pool.

## **CLEAN EQUIPMENT**

Clean all equipment immediately after use with Lacquer Thinners.

## **STORAGE**

Keep Epoxy Primer stored at room temperature in dry conditions and away from children.

## **CAUTION – EPOXYPRIMER IS FLAMMABLE**

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