



# TECHNICAL DATA

## Epoxy Primer/Sealer

### ***Epirez® 123***

#### **Description**

**Epoxy Primer/Sealer (123)** is solvent free and low in viscosity. It has been developed to offer excellent surface wetting and compatibility with most **Epirez** binders, coatings and adhesives.

**Epoxy Primer/Sealer (123)** has been specially developed to bond to both dry and damp surfaces.

**Epoxy Primer/Sealer (123)** has a proven history in a variety of applications in the building and construction industry. Field usage is aided by a convenient mixing ratio.

#### **Areas of Application**

- Primer for porous concrete
- Anti-flash rust primer for blasted steel
- Repairing cracked concrete
- Sealer for floor toppings
- Impregnation of honeycombed concrete
- Primer for concrete repair systems

#### **Features**

- Solventless
- Low viscosity aids penetration
- Fast hardening
- Low modulus
- Extremely low permeability
- Easy mix ratio

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The information contained in this Technical Bulletin is as up to date and correct as possible as at the time of issue. The data provided should be used as a guide only as the performance of the product will vary depending on differing operating conditions and application methods.

The sale of any product described in this Technical Bulletin will be in accordance with ITW Polymers & Fluids Conditions Of Sale, a copy of which is available on request. To the extent permitted by law, ITW Polymers & Fluids excludes all other warranties in relation to this product.

## General Properties

Shelf Life	: 2 Years
Appearance of Hardener	: Thin Amber Liquid
Appearance of Compound	: Amber Liquid
Mixing Proportions by Weight or Volume	: 1 Hardener to 2 Compound
Initial Mixed Viscosity	: 0.3 Pa.s at 25°C
Solids Content	: 100%
Work Time	: 30 Minutes at 25°C
Hardening Time	: 24 Hours at 25°C
Density	: 1.08 g/cm <sup>3</sup>
Water Permeability	: 4 x 10 <sup>-17</sup> m/s
Concrete Bond Strength	: 2.7 MPa (Concrete Failure)
Resistance to Chloride Ion Penetration	: Good
Coverage - Concrete	: 4-8m <sup>2</sup> /Litre
- Steel	: 10m <sup>2</sup> /Litre

## Estimating Data

1 litre Epoxy primer and Sealer	= 4-8 m <sup>2</sup> (concrete)
	= 10m <sup>2</sup> (steel)

## Application Directions

### Surface Preparation

#### Concrete

Remove old paint and all loose material. New concrete must be at least 28 days old. Remove any oil or grease contamination by washing with a suitable degreaser. Hose off with high pressure water. Captive blast clean to expose firmly held aggregate. Allow to dry before application.

#### Steel

Ensure that the surface is free from oil and grease. Abrasive blast clean in accordance with **Australian Standard AS1627:4 - 2005** to a Class 2 1/2 near white metal finish. Coating of the prepared steel should be completed within four hours.

Surface preparation guidelines cannot cover all site or field contingencies and it is always recommended that an on-the-spot adhesion test be performed as part of the Standard Quality Assurance audit for the project.

### Application

Pour all the Hardener into the Compound container. Large packs should be accurately proportioned. Mix thoroughly using a stirrer fitted to a low speed (400 rpm) power mixer. Ensure that all the material on the sides and on the stirrer are incorporated. Take care to avoid air entrapment into the mixture.

Apply by brush, roller or airless spray equipment. Apply any finishing system after the initial prime coat of **Epoxy Primer/Sealer (123)** is touch-dry (approximately 6 hours at 25°C), but in any case, within 24 hours.

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## Cleaning

Tool and equipment may be cleaned before hardening commences by washing with **Epirez® Clean Up Solvent**. Do not use for cleaning hands or mixing with product.

## Limitations

**Epoxy Primer/Sealer (123)** should not be applied at temperatures below 10°C

## Packaging

**Epoxy Primer/Sealer (123)** is available in 6 litre and 25 litre packs. Each pack contains Hardener and Compound in the correct proportions for use.

## Ordering Information:

6 Ltr	#E901232
25 Ltr	#E901231

## Safety Precautions

Avoid contact with skin and avoid breathing vapour. Wear gloves and goggles when mixing and using. Keep away from children. Provide adequate ventilation if applied in confined spaces. If poisoning occurs call Doctor or Poisons Information Centre. If swallowed **DO NOT** induce vomiting. Give plenty of water or milk. If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water.

**TDG Code:** Hardener - UN 1760 Compound - Not Classified

## Note

The figures quoted for work time, hardening time and coverage are not definitive. They are dependent on job site conditions and will vary accordingly. In all cases we endeavour to provide typical figures for use as a guide

## Health & Safety Information

The product is hazardous. A Material Safety Data Sheet is available from the ITW Polymers & Fluids Technical Department upon request or available on our website [www.epirez.com.au](http://www.epirez.com.au) .

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