



# TECHNICAL DATA

## High Build Epoxy Coating Grey

### *Epirez 235*

#### Description

**High Build Epoxy Coating** is a solventless coating which provides excellent chemical and abrasion resistance to steel, concrete, aluminium, timber and other surfaces. This product can also be used to prepare easy-clean floor surfaces.

**High Build Epoxy Coating** has been especially formulated to provide long work time for ease of use with spray equipment. However, drying time is short and recoating can easily be accomplished in the same shift.

The exceptional resistance to a wide variety of chemical spillage and fumes makes **High Build Epoxy Coating** ideal for use in the heavy industrial or marine environments.

#### Areas of Application

- Pulp and paper mills
- Refineries
- Dairies
- Sewerage treatment plants
- Food processing plants
- Plating plants
- Asphalt and concrete plants
- Oil drilling platforms
- Construction and mining industry
- Water storage tanks

#### Features

- Tile-like finish
- Excellent adhesion
- Good work time
- Good chemical resistance
- High build application
- Solventless

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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                                     |
| Mixing Proportions by Weight | : 1 Hardener to 3 Compound                    |
| Mixing Proportions by Volume | : 1 Hardener to 2 Compound                    |
| Solids Content               | : 100% <sup>w/w</sup>                         |
| Work Time                    | : 2 hours at 25°C                             |
| Tack Free Time               | : 4 hours at 25°C                             |
| Hardening Time               | : 24 hours at 25°C                            |
| Coverage – Theoretical       | : 20m <sup>2</sup> /200 micron dry film/4 ltr |
| Typical Dry Film Thickness   | : 200 micron per coat                         |
| Finish                       | : Gloss                                       |
| Abrasion Resistance          | : Very good                                   |

## Resistance to chemical spillage (7 days at 25°C)

- Ammonia Solution (20%)
- Sulphuric Acid (30%)
- Hot Water
- Aviation Fuels
- Petrol
- Tannic Acid
- Food Emulsions
- Lubricating Oil
- Sodium Hydroxide (30%)
- Kerosene
- Lactic Acid (5%)
- Sodium Chloride (50%)
- Fuel Oil
- Hydrochloric Acid (20%)
- Acetic Acid (5%)
- Toluene

Chemical spills should be washed off with water as soon as possible.

## Estimating Data

4 litre High Build Epoxy Coating = 20 m<sup>2</sup> (total 200µm dft)

## Application Directions

### Surface Preparation

#### Concrete

Remove any old paint and all loose material. New concrete must be at least 28 days old. Remove any oil or grease contamination by washing with suitable surface 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 or grease. Abrasive blast clean in accordance with **A.S. 1627:9 - 2002** to a profile of 50 microns. Priming of treated 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.

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#### AUSTRALIA

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#### NEW ZEALAND

ITW Polymers & Fluids  
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Airport Oaks, Mangere, Auckland  
Phone (09) 256 2122 Fax (09) 256 2124

## Priming

### Concrete

Prime surface with **Epoxy Primer/Sealer** using a long nap roller or airless spray. Work well into the surface profile and pores to ensure complete penetration.

### Steel

Prime freshly prepared surface with **Epoxy Mastic Metal Primer (215)** using brush, medium nap roller or airless spray.

## Application

Add Hardener to the Compound can and mix thoroughly using a suitable mixing paddle fitted to a low speed (400 rpm) power tool. Scrape sides and bottom of container with a flat blade. Remix as necessary.

**High Build Epoxy Coating** can be applied by brush, roller or airless spray in two coats each up to 200 microns. **High Build Epoxy Coating** may be thinned if necessary with up to 15% **Epirez Epoxy Thinner**. Allow the coating to cure for seven days prior to subjecting to severe chemical exposure.

## Cleaning

Tools 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.

## Maintenance

To maintain a good appearance and ensure a long serviceable life for Epirez Floors, it is important that good house keeping procedures are always maintained.

Cleaning can be done with a mop, brush or auto scrubbing machine. Use a low residue detergent that is neutral in pH.

**Note:** It is important that manufacturer's instructions on dilutions of cleaning solutions are followed.

## Limitations

**High Build Epoxy Coating** should not be applied at temperatures below 10°C.

**High Build Epoxy Coating** should not be applied to surfaces known to suffer from rising damp.

**High Build Epoxy Coating** is not recommended for application over tiles and is not suitable for use where it is subjected to high concentrations of hot chicken fat.

## Storage and Shelf Life

Store in dry conditions between 10°C and 30°C, away from sources of heat and naked flames. Protect from frost. When stored in original sealed containers the minimum shelf life is 2 years.

## Packaging

**High Build Epoxy Coating** is available in Grey in 4 litre packs, each containing Hardener and Compound in correct proportions for use.

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## Ordering Information:

Grey 4 litre #902357

## Safety Precautions

Follow normal coating precautions. Contents are flammable. Keep away from fire or naked flame. Keep contents away from children. If swallowed, call a Doctor or Poisons Information Centre. When mixing or using, avoid skin contact or breathing of vapours. If splashed on skin, wash with soapy water. During application, wear protective clothing and where necessary, goggles and mask, or respirator. Provide adequate fresh air ventilation.

**TDG Code:** Hardener - UN 2924 Compound - Not Classified

## Note

The figures quoted for work time, tack free time and hardening time 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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