



EPIREZ

# TECHNICAL DATA

## Multi-Purpose Epoxy Concrete Repair

### *Multi II*

**Multi-Purpose Epoxy Concrete Repair** is part of the **EPIREZ** range of epoxy repair systems for use in the building and construction industry. It is designed to offer easy mixing and application as well as high strength. It features a non-sag paste-like consistency before hardening and is suitable for knifing or trowelling onto vertical and overhead surfaces.

### Areas of application

- Repairing damaged and honeycombed concrete
- Joining and repairing concrete pipes
- Bonding tiles to metal or concrete surfaces
- Bonding metal, stone and wood to concrete
- Repairs to damaged factory concrete floors
- Handyman concrete repairs

### Features

- Equal part mix
- Stronger than concrete
- Excellent adhesion
- Good chemical resistance
- Non-shrink
- Multi-purpose
- Good water Resistance
- Economical
- Colour coded mixing
- Concrete grey colour

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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	: Black Paste
Appearance of Compound	: White Paste
Mixing Proportions by Volume	: Equal Parts
Colour	: Grey
Solids Content	: 100%
Work Time	: 45 Minutes @ 25°C
Hardening Time	: 6 Hours @ 25°C
Cure Time	: 24 Hours @ 25°C
Compressive Strength	: 60 MPa
Tensile Strength	: 12 MPa
Water Permeability	: $2 \times 10^{-17}$ m/s
Bond Strength (Concrete)	: 2.7 MPa*
Bond Strength (Steel)	: 10 MPa
Bond Strength (Timber)	: 5.0 MPa*
Chemical Resistance (Oils, Solvents)	: Excellent
Peak Operating Temperature	: 90°C

\* Substrate fails first

## Estimating data

12 Kg Multi-Purpose Epoxy Concrete Repair = 1 m<sup>2</sup> at 8 mm thick

## Application directions

### Surface preparation

All surfaces for repair or bonding should be clean, dry and free from dust, oil, wax, grease, etc. Best results will always be obtained by mechanical preparation such as blast cleaning, or scabbling to expose sound substrates.

Soiled concrete should be scrubbed or wire brushed and then washed with clean water. Allow to dry. If concrete is porous, prime with **Epoxy Primer/Sealer (123)**. Allow to harden.

All steel surfaces should be mechanically wire brushed, ground or abrasive blasted to remove paint, rust, etc. Any grease or oil should be thoroughly removed with a solvent cleaner or a surface degreaser.

Since **Multi-Purpose Epoxy Concrete Repair** has excellent adhesion, once cured it is very difficult to remove. Protect adjoining surfaces with masking tape. Remove masking tape before hardening occurs.

Surface preparation guidelines cannot cover all site or field contingencies and it is always recommended to perform an on-the-spot adhesion test as a Quality Assurance audit if doubt exists over the process.

### Application

Mix equal amounts of Hardener and Compound with a broad knife, spatula or a slow speed drill and mixing paddle. Mix thoroughly until an even colour results. Trowel the mixed **Multi-Purpose Epoxy Concrete Repair** onto the prepared surface with pressure. For a smooth surface, finish with a damp trowel. Protect mechanically and chemically until fully cured.

### Cleaning

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

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Phone (09) 256 2122 Fax (09) 256 2124

## Limitations

**Multi-Purpose Epoxy Concrete Repair** should not be applied at temperatures below 10°C

## Storage and shelf life

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

## Packaging

**Multi-Purpose Epoxy Concrete Repair** is available in 3 kg (2 Ltr) and 12 kg (8 Ltr) packs, containing Hardener and Compound in correct proportions for use.

## Ordering Information:

3 kg	#992251
12 kg	#992250

## 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 - UN1760 Compound - Not Classified

## Note

The figures quoted for work time, curing 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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