MULTI-PURPOSE EPOXY CONCRETE REPAIR (MULTI II)

EPOXY MORTAR PATCHING COMPOUND

DESCRIPTION

EPIREZ® 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.

EPIREZ® Multi-Purpose Epoxy Concrete Repair was previously named **EPIREZ® MULTI II**.

INTENDED USE

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

PRODUCT 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

ESTIMATING DATA

12 kg **EPIREZ® Multi-Purpose Epoxy Concrete Repair** = 8 L = 1 m^2 @ 8 mm thick
3 kg **EPIREZ® Multi-Purpose Epoxy Concrete Repair** = 2 L = 1 m^2 @ 2 mm thick

TYPICAL PHYSICAL PROPERTIES

Technical data should be considered representative or typical only and should not be used for specification purposes.

Appearance of Hardener	Black Paste
Appearance of Resin	White Paste
Mixing Ratio	Equal Parts
Mixed Colour	Grey
Pot Life @ 25°C	45 minutes
Hardening Time @ 25°C	6 hours
Cure Time @ 25°C	24 hours
Solids Content	100%
VOC Content	0 g per L
Application temperature	10 – 30°C
Compressive Strength, Ultimate	60 MPa

Bond Strength (Concrete)	2.7 MPa (substrate failure)
Bond Strength (Steel)	10 MPa
Bond Strength (Timber)	5.0 MPa (substrate failure)
Tensile Strength, Ultimate	12 MPa
Water permeability	2.0 x 10^{-17} $m.s^{-1}$

SURFACE PREPARATION

Concrete

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

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

Steel

Abrasive blast to AS 1627 Part 4 – 2005 to class 3 white metal and achieve profile height minimum 75 - 100 microns.

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.

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.

Since **EPIREZ® 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.

MIXING INSTRUCTIONS

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 **EPIREZ® 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.

APPLICATION INSTRUCTIONS

Trowel the mixed **EPIREZ® 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.

CLEAN UP

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.

STORAGE

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 two years.

PRECAUTIONS

Multi-Purpose Epoxy Concrete Repair (Multi II) should not be applied at temperatures below 10°C.

WARRANTY

Epirez will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

DISCLAIMER

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Polymers & Fluids and EPIREZ® makes no representations or warranties of any kind concerning this data.

ORDER INFORMATION

Item No.	**Package Size**
E992251	3kg kit
E992250	12kg kit

CONTACTS

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For Health & Safety information, refer to Safety Data Sheet available from ITW Polymers & Fluids upon request or available on our website.