September 2022

SUPATUFF™ ACID RESISTANT COATING

Acid Resistant Coating

Description:

EPIREZ® Supatuff™ Acid Resistant Coating is a specially formulated acid resistant coating designed for application as a 300 – 500 micron coating system for concrete walls, columns and pump footings.

EPIREZ® Supatuff™ Acid Resistant Coating is also suitable as a sealer for concrete floors where extreme chemical resistance is required.

EPIREZ® Supatuff™ Acid Resistant Coating is recommended for use over trowelled epoxy / aggregate coatings made using **EPIREZ® Acid Resistant Epoxy Mortar Binder.** This is particularly recommended where for floors where ponding and mechanical damage occur.

EPIREZ® Supatuff™ Acid Resistant Coating may be used with broadcast aggregate as a non-slip finish over this system.

EPIREZ® Supatuff™ Acid Resistant Coating resists a wide range of acids, including concentrated sulphuric acid, as well as alkalis and solvents.

EPIREZ® Supatuff™ Acid Resistant Coating was previously named **EPIREZ® Supatuff™ AR**

Intended Use:

- Food industries
- Mining industries
- Plating shops
- Chemical industries
- Wastewater treatment
- Battery manufacturers
- Bund walls
- Paper manufacturers
- Pharmaceutical industries
- Chemical containment

Product Features:

- **Easy to apply**
- **Monolithic protection**
- **Foot traffic in 24 hours**
- **High solids**
- **Resists 98% sulphuric acid**
- **Broad chemical resistance**

Estimating Data:

4L **EPIREZ® Supatuff™ Acid Resistant Coating** = 12 m^2 (2 x 150 µm DFT coats)

Typical Physical Properties:

Colour	Grey
Mixing Ratio by Volume	1 Hardener to 3 Compound
Solids Content:	90% v/v
Application Temperatures	10°C to 30°C
Work Time @ 25°C	45 minutes
Tack Free Time @25°C	6 hours
Recoat Time @25°C	8 – 24 hours
Hardening Time @25°C	24 hours
Full Chemical Resistance	7 days
Maximum operating temperature	65° C
Tensile bond strength	2.7 MPa (concrete failure)

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Chemical Resistance:

Chemical resistance tested after 112 days, room temp. cure @ 25° C

Sulphuric Acid 98%	Good	Sodium Hydroxide 20%	Excellent
Sulphuric Acid 30%	Good	Sodium Hydroxide 50%	Very Good
Hydrochloric 32%	Very Good	Sodium Hypochlorite	Very Good
Nitric Acid 20%	Good	Ammonia Solution 10%	Very Good
Mineral Spirits	Excellent	MEK	Very Good
Acetic Acid 10%	Good	Hexane	Very Good
Lactic Acid 5%	Very Good	Toluene	Very Good
Phosphoric Acid 20%	Very Good	Ethyl Acetate	Very Good

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.

Etch surface using **EPIREZ® Concrete Etch & Cleaner**. Neutralise surface by washing with fresh water and allow to dry.

Defects such as damaged concrete, blowholes, honeycombing and cracks should be repaired to ensure a monolithic pinhole-free coating system.

Steel

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

Priming

Prime concrete surfaces using **EPIREZ® Acid Resistant Epoxy Binder**, at a coverage rate of 6m²/litre. Primer should be "touch-dry" before proceeding. **EPIREZ® Supatuff™ Acid Resistant Coating** should be applied within 24 hours of priming. If this time is exceeded the sub-base must be reprimed. Keep primed surfaces clean.

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.

Mixing Instructions:

It is strongly recommended that full units be mixed, as ratios are pre-measured.

Proper homogenous mixing of resin and hardener at the correct ratio is essential for the curing and development of stated properties.

Precondition product to between 18 to 25°C before use.

Prior to mixing, the area should be reviewed so that a fixed volume of mixed material can be applied over a fixed area to ensure correct application rate.

Add Hardener to Compound and mix thoroughly using a stirrer fitted into a low speed (400 rpm) power mixer. Ensure that all the material on the sides, under the lip of the container and on the stirrer is incorporated.

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Note: Take care to avoid air entrapment into the mix. Keep propeller below liquid line, as additional air can be added to mixture, resulting in air bubbles on the surface of the finished product.

Application Instructions:

EPIREZ® Supatuff™ Acid Resistant Coating can be applied by brush, roller or airless spray in two coats (minimum) to achieve 300 micron DFT. Allow 8 to 24 hours between coats.
For optimum chemical resistance **EPIREZ® Supatuff™ Acid Resistant Coating** should be cured for seven days at 25ºC before exposure to chemicals. Longer curing times should be allowed at lower temperatures.

For non-slip finishes, broadcast **EPIREZ® Patching & Flooring Mortar Aggregate** or other selected aggregate, between coats using "spread and sprinkle" method.

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:

Epirez® Supatuff™ Acid Resistant Coating should not be applied at temperatures below 10˚C.
Epirez® Supatuff™ Acid Resistant Coating should not be applied to surfaces known to suffer from rising damp.
Epirez® Supatuff™ Acid Resistant Coating is not recommended for application over tiles.

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:

4Ltr	E992856
16Ltr	E992799

Health & Safety Information:

For Health & Safety information, refer to Safety Data Sheet available from ITW Polymers & Fluids upon request or available on our website www.epirez.com.au or www.epirez.co.nz

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