



TECHNICAL DATA

Supatuff Acid Resistant Coating

Supatuff AR

Description

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.

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

Acid Resistant Epoxy Binder (133AR) should be considered for floors where ponding and mechanical damage occur. **Supatuff Acid Resistant Coating** may be used with broadcast aggregate as a non-slip finish over this system.

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

Areas of Application

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

Features

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

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 Volume only)	:	1 Hardener to 3 Compound
Colour	:	Grey
Solids Content	:	90% $\frac{v}{v}$
Application Temperatures	:	10°C – 30°C
Coverage per pack – theoretical	:	24m ² per coat at 150 micron DFT
Work Time	:	45 Minutes @ 25°C
Tack Free Time	:	6 Hours @ 25°C
Recoating Time	:	8 - 24 Hours @ 25°C
Full Chemical Resistance	:	7 Days @ 25°C
Maximum Operating Temperature	:	65°C
Tensile Bond Strength	:	2.7 MPa (concrete failure)

Resistance to Chemical Spillage (cured for 7 days at 25°C)

Supatuff Acid Resistant Coating, when fully cured, is resistant to the splashes and spills of many chemicals eg:

Acids:	Sulphuric acid	98%	Alkalies:	Caustic Soda	20%
	Sulphuric acid	30%		Ammonia Solution	10%
	Hydrochloric acid	Up to 32%	Solvents:	Alcohol	
	Nitric acid	Up to 20%		Methylethylketone	
	Acetic acid	10%		Trichloroethylene	
	Lactic acid	5%		Ethyl Acetate	
	Phosphoric acid	20%		Hexane	

Surface staining may result from exposure to some aggressive chemicals. Good housekeeping practice requires that spills are quickly removed and washed away.

Estimating Data

4 Ltr Supatuff Acid Resistant Coating = 12 m² (2 x 150 um dft)

Application Directions

Surface preparation

Concrete

New concrete must be at least 28 days old. Remove any old paint and all loose material. Remove any oil or grease contamination by washing with a suitable degreaser. Hose off with high pressure water and allow to dry.

Captive blast clean to expose firmly held aggregate to industrially accepted standards.

Alternatively, acid etch using **Epirez Concrete Etch & Cleaner** or hydrochloric acid diluted with water in the ratio 1:2. 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.

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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Priming

Prime concrete surfaces using **Acid Resistant Epoxy Binder (133AR)**, at a coverage rate of 6m²/litre. Primer should be "touch-dry" before proceeding. **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.

Application

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 low speed (400 rpm) power mixer. Ensure that all the material on the sides and on the stirrer are incorporated. Mix until a uniform consistency is obtained. Take care to avoid air entrapment in the mix.

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. Allow the coating to cure for 7 days prior to subjecting to chemical exposure.

For non-slip finishes, broadcast **Patching & Flooring Mortar Aggregate (QA2)** or other selected aggregate, between coats using "spread and sprinkle" method.

Curing

For optimum chemical resistance **Supatuff Acid Resistant Coating** should be cured for seven days at 25°C. Longer curing times should be allowed at lower temperatures.

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.

Limitations

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

For more information contact the ITW Polymers & Fluids Technical Department.

Maintenance

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

Storage and Shelf Life

Store in dry conditions between 10°C and 30°C. Protect from frost.
When stored in original sealed containers the minimum shelf life is 2 years

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Packaging

Supatuff Acid Resistant Coating is available in 4 litre and 16 litre packs. Each pack contains Hardener and Compound in correct proportions for use.

Ordering Information:

4 Ltr (grey)	#992856
16 Ltr (grey)	#992799

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 any contaminated clothing and wash affected area thoroughly with soap and water.

TDG Code: Hardener - UN 1760 Compound – UN 1993

Note

The figures quoted for work time, cure 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.

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