



# TECHNICAL DATA

## Supatuff™ Heavy Duty Epoxy Coating

### Supatuff™ HD



#### Description

**Supatuff™ Heavy Duty Epoxy Coating (HD)** is a high solids, high build, epoxy-based coating which provides excellent chemical and abrasion resistance to steel, concrete, timber and other surfaces. This product can also be used to prepare easy-clean floor surfaces for a wide range of industrial and commercial applications. Please check with ITW Polymers & Fluids Technical Department for preparation of other surfaces not specified.

**Supatuff™ Heavy Duty Epoxy Coating (HD)** has been especially formulated to provide long work time for ease of use.

It can be applied at low temperatures (minimum 5°C) and also over slightly damp concrete surfaces to produce a very hard wearing, colourful surface suitable for heavy foot traffic and rubber-tyred vehicles.

The exceptional resistance to a wide variety of chemical spillage and fumes makes **Supatuff™ Heavy Duty Epoxy Coating (HD)** ideal for use in heavy industrial or marine environments.

**Supatuff™ Heavy Duty Epoxy Coating (HD)** has been independently tested and meets the requirements of AS/NZS 4020 - 2002 for use in contact with potable water.

#### Areas of Application

- Abattoirs
- Pulp mills
- Refineries
- Dairies
- Sewerage treatment plants
- Food processing plants
- Plant rooms
- Vehicle workshops
- Asphalt and concrete plants
- Warehouses
- Water tanks and reservoirs
- Car parks

#### Features

- Protection for years, in minutes
- Approved for use in contact with potable water
- Minimises maintenance costs – pays for itself in reduced labour alone
- High build application – low application costs

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.

- Bonds to damp concrete
- Full range of colours available – brightens working environment

## General Properties

Shelf Life	: 2 Years
Solids Content	: 85% $\frac{V}{V}$
Mixing Proportions by Volume	: Equal parts Hardener & Compound
Work Time Per Pack	: 3 hours at 25°C
Tack Free Time	: 6 hours at 25°C
Recoating Time	: 16-48 hours at 25°C
Cure Time	: 7 days at 25°C
Coverage Per Pack – Theoretical	: 45m <sup>2</sup> per coat at 150 micron DFT
Colours	: Full range available

## Coating Properties

Abrasion Resistance	: Excellent
Temperature Resistance	: Up to 95°C Dry Heat

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

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

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

## Estimating Data

8 Ltr Supatuff Heavy Duty Epoxy Coating (HD) = 22.5 m<sup>2</sup> (2 x 150 um 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 a suitable surface degreaser. Hose off with high pressure water. Captive blast clean to expose firmly held aggregate to industrially accepted standards. Allow to dry before application.

Alternatively, acid etch using **Epirez® Concrete Etch & Cleaner**. Neutralise surface by washing with fresh water and allow to dry.

#### Steel

Ensure that the surface is free from oil and grease. Abrasive blast clean in accordance with **AS1627:4-2005** to a Class 2 ½ near white metal finish. Coating of the prepared steel should be completed within 4 hours.

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### AUSTRALIA

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### NEW ZEALAND

ITW Polymers & Fluids  
Unit 2 / 38 Trugood Drive  
East Tamaki 2013, Auckland  
Phone (09) 272 1945 Fax (09) 273 6489

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

Add complete contents of selected **Epirez® Colourpack** to Compound and mix thoroughly with a low speed (400 rpm) mixer before adding Hardener. Then add Hardener and mix again thoroughly.

## Application

**Supatuff™ Heavy Duty Epoxy Coating (HD)** can be applied by brush, roller or airless spray in two coats (minimum) to achieve 300 micron DFT. Thin first coat (if necessary) with up to 20%  $\frac{v}{v}$  **Epirez® Epoxy Thinner (No.3)**. Allow the coating to cure for 7 days prior to subjecting to chemical exposure.

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

## 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.

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

**Supatuff™ Heavy Duty Epoxy Coating (HD)** should not be applied at temperatures below 5 °C.

**Supatuff™ Heavy Duty Epoxy Coating (HD)** should not be applied to surfaces known to suffer from rising damp.

**Supatuff™ Heavy Duty Epoxy Coating (HD)** is not recommended for application over tiles and is not suitable for use where it is subjected to high concentrations of chicken fat.

For more information contact the technical department.

## 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.

## 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

**Supatuff™ Heavy Duty Epoxy Coating (HD)** is available in 8 litre packs containing Hardener and Compound in correct proportions for use. Selected **Epirez® Colourpack** must be added.

## Ordering Information:

**Supatuff™ Heavy Duty Epoxy Coating (HD) Neutral 8 Ltr #E992850**

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**Colourpack 1 kg**

#Various

**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](http://www.epirez.com.au).

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