

## TECHNICAL DATA SHEET

## D32 3 METAL FILLED EPOXY

V1-01/04/2024

### DESCRIPTION

A multi-purpose, metal filled, two component, high strength epoxy putty for repairing and rebuilding machinery and equipment where conventional methods such as welding cannot be performed. The epoxy putty is based on high performance polymers resulting in a durable and fully machinable finish.

### PROPERTIES

- Easy to mix and apply.
- No shrinkage (100% solids)
- Can be applied to vertical surfaces.
- Gap filling putty
- Non-toxic when fully cured.
- High Mechanical Strength
- High Bond Strength
- Fully Machinable

<b>COLOUR</b>	: Metallic Grey
<b>Nº. OF COMPONENTS</b>	: 2
<b>MIXING RATIO (WEIGHT)</b>	: 1.5:1
<b>CONSISTENCY</b>	: Putty Paste
<b>VOLUME SOLIDS</b>	: 100%
<b>MIXED DENSITY</b>	: 2.77
<b>PRACTICAL SPREAD RATES</b>	: 1m <sup>2</sup> /ℓ
<b>POT LIFE @ 25°C</b>	: 45 min
<b>TOUCH DRY @ 25°C</b>	: 4 hrs
<b>HARD DRY @ 25°C</b>	: 24 hrs
<b>FULL CURE</b>	: 7 days
<b>CLEANING EQUIPMENT</b>	: D701 WSBC
<b>SHELF LIFE</b>	: 12 months
<b>PACK SIZE</b>	: 1kg

### RECOMMENDED AREAS FOR USE

Used for shafts, hydraulic rams, pipes, tanks, flange faces, casings, keyways, bearing housings & levelling.

### PHYSICAL PROPERTIES

<b>Taber Abrasion</b> 1 kg Load CS17 Wheel (Dry) 56mm <sup>3</sup> loss per 1000 cycles	<b>Adhesion (Cleavage)</b> Grit Blasted Steel (100µ Angular Profile) 25kg/mm <sup>2</sup>
<b>Hardness</b> 89 Shore D (Typical)	<b>Heat Distortion Temperature</b> 58°C (Ambient Cure) 102°C (Post Cure)
<b>Impact Strength</b> 35 J/m (Reverse impact)	<b>Shrinkage</b> < 0.03%
<b>Compressive Strength</b> 900 kg/cm <sup>2</sup> (Ambient Cure) 1020 kg/cm <sup>2</sup> (Post Cure)	<b>Flexural Strength</b> 600 kg/cm <sup>2</sup> (Ambient Cure) 900 kg/cm <sup>2</sup> (Post Cure)
<b>Dielectric Strength</b> 3300 volts/mm	<b>Volume Resistivity</b> 5,3 x 10 <sup>7</sup> ohm/cm

### CHEMICAL RESISTANCE

Resistant to most dilute acids & alkalis, petroleum products, aliphatic solvents & salt water.

### SURFACE PREPARATION

All surfaces must be free of dust, oil and dirt. Smooth surfaces should be abraded to create a mechanical key.

### MIXING

- Using a spatula or trowel, mix the epoxy and activator in the proportions given to a uniform colour.
  - Apply with a trowel or scraper and smooth with epoxy thinners.
  - Allow to cure overnight, 12 to 24 hrs before sanding or machining.

### TOXICITY

Although D323 is safe, inert and harmless when cured, care should be taken to avoid skin contact or inhalation of the uncured components during mixing and application. Refer to the relevant 16-point Material Safety Data Sheet.

### HOW TO SPECIFY

Repair suitably prepared surfaces using D323 Metal Filled Epoxy in accordance with the manufacturer's instructions.

*the event of a proven fault our liability will be limited to the replacement of the product only. It is the user's responsibility to confirm the currency of product data sheets.*