

FLUID SUPER METAL RESURFACING SYSTEM

ThistleBond

A Division of E. Wood Ltd., U.K.



ThistleBond 'Fluid Super Metal Resurfacing System' is a high performance synthetic metal repair polymer specifically developed for resurfacing and reforming damaged metal machinery and equipment where excellent mechanical strength and easy machining properties are required. This product is formulated on a complex blend of polymer resins combined with a polyamino curing system reinforced with a phosphor steel alloy to enhance corrosion and chemical resistance of the whole system.

ThistleBond 'Fluid Super Metal Resurfacing System' can be applied to any damaged metal component and provides an excellent slip resistant surface in combination with a grip and is ideal for drive rollers and brake test rollers where grip is essential. It bonds to glass, fiberglass and other composites. Apart from good mechanical properties, 'Fluid Super Metal Resurfacing System' has an excellent chemical corrosion resistance (Test of SALT FOG passed for 5000 hours) which ensures a full proof repair in any working condition.

SURFACE PREPARATION & APPLICATION PROCEDURE

Remove thick deposits like grease, rust, dust, dirt and make surface rough enough. Clean with ThistleBond 'Cleaner'. Surface should be prepared by mechanical grinding / wire wheel / angle grinder / needle gun or by abrasive blasting to SA 2.5 profile. Cross score surface to improve adhesion.

Mix Resin & Hardner in 2:1 ratio by volume and mix thoroughly till single colour consistency appears. Apply by stiff brush or squeeze over prepared surface by wetting action to fill up deformities and to remove entrapped air from the surface. Then a full and even coat should be given. The cured surface can be drilled, tapped or machined.

FLUID SUPER METAL RESURFACING SYSTEM

PHYSICAL PROPERTIES

Flexural Strength	490 kg/cm ²
ASTM D790	(7000 psi)
Compressive Strength	635 kg/cm ²
ASTM D695	(9000 psi)
Tensile Shear Adhesion	195 kg/cm ²
ASTM D1002	(2800 psi)
Heat Distortion	60 °C
ASTM D648	
Hardness (Shore D)	85
ASTM D2246	
Corrosion Resistance	5000 hours
ASTM B117	unaffected
Recommended Thickness	250 microns
Coverage per kilogram	1.88 m ² @ 250microns

PHYSICAL CONSTANTS

Mixing Ratio	Resin	Hardner
By volume	2	1
Appearance	Resin	Hardner
Paste / Liquid	Coloured	Amber
Drying Time @ 20°C		
Usable Life	40 Minutes	
Initial Set	4 Hours	
Machining	8 Hours	
Volume Solids	100%	
VOC	Nil	
Operating Temperature	Maximum	Continuous
Dry Heat	250 °C	120 °C
Wet Heat	120 °C	70 °C
Shelf Life	5 years	

CHEMICAL RESISTANCE *

Acetic Acid 0-10%	Good
Hydrochloric Acid 0-20%	Excellent
Hydrobromic Acid Dilute	Excellent
Nitric Acid 0-10%	Excellent
Liquid Petroleum	Excellent
Nitrous Oxide	Excellent
Sulfuric Acid 0-20%	Excellent
Sulphur Dioxide	Excellent
Sea Water	Excellent

SUPPLY INFORMATION

Stock No : TR110
Description : Fluid Super Metal Resurfacing System
Pack Size : 1 kg

* for further information see Chemical Resistance Chart

RECOMMENDED APPLICATIONS

- Resurfacing of the damaged machine parts, equipments
- Resurfacing the drive rollers of conveyor
- Resurfacing the brake test rollers in mines, cars mfg industry
- Repairing of fan belt grooves to enhance the grip
- Repair of pitting, cavities in the pump casings
- Repair of cracks in gear boxes, metal components
- Repair of threads & bearing surfaces

Distributor catering to your needs



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