

ThistleBond

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



ThistleBond 'PlasSteel' is a high performance rapid curing engineering grade synthetic metal repair compound in the form of STICK which has been specifically developed for rapid and ON-SITE repairs to metal components such as castings, worn threads, jigs and mould patterns where excellent mechanical strength and easy machining properties are required.

ThistleBond 'PlasSteel' is formulated on a unique epoxy resin system co-reacted with an organo sulphur / amine blend which are then interspersed with specially chosen pigments and fillers which allow base and activator components to be packed in intimate contact with each other. The reaction only occurs when the two components are hand mixed and the resultant blend produces a repair material with high physical and mechanical strength. It has an excellent chemical resistance to many industrial corrosive chemicals.

ThistleBond 'PlasSteel' also has the ability to cure underwater. Fast curing time of 6 minutes at 20°C facilitate to attend repairs even in submerged conditions. ThistleBond 'PlasSteel' has superior mechanical properties, high temperature resistance of 250°C and excellent chemical corrosion resistance (Test of Salt fog passed for 5000 hours) makes the product suitable in any working condition.

By using 'PlasSteel' handy pack of 0.125 kg in combination with 'Rapid Setting Super Metal' of 0.175 kg, an effective instant and permanent solution can be obtained for Transformer Oil Leakage.

SURFACE PREPARATION & APPLICATION PROCEDURE

Remove thick deposits like grease, rust, dust, dirt and make surface rough enough then clean with ThistleBond 'Cleaner'.

Cut the stick to desired volume and mix thoroughly till single colour consistency appears and apply over prepared surface by pressing action. Ensure full adhesion of material to substrate. Smooth surface as per the dimensions. This can be machined after full cure.

This handy 'PlasSteel' makes the repairs In-Situ without wastage and gives an economical solution to field problems.

PHYSICAL PROPERTIES

Compressive Strength	350 kg/cm ²
ASTM D695	(5000 psi)
Corrosion Resistance	5000 hours
ASTM B117	unaffected
Flexural Strength	230 kg/cm ²
ASTM D790	(3250 psi)
Hardness (Shore D)	85
ASTM D2246	
Tensile Shear Adhesion	45 kg/cm ²
ASTM D1002	(650 psi)
Heat Distortion	40 °C
ASTM D648	

PHYSICAL CONSTANTS

Mixing Ratio	Supplied ready to use.	
Appearance	Stick	
Drying Time @ 20°C		
Usable Life	6 Minutes	
Initial Set	15 Minutes	
Machining	30 Minutes	
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 *

Sulfuric Acid 0-10%	Good
Hydrochloric Acid 0-10%	Good
Hydrofluoric Acid	Satisfactory
Phosphoric Acid Diluted	Good
Nitric Acid 0-10%	Good
Sulphur Dioxide Wet	Good
Chlorine	Satisfactory
Acetic Acid > 10%	Satisfactory
Sodium Hydroxide	Excellent
Transformer Oil / Diesel	Good
Nitrous Oxide	Excellent
Hydrobromic Acid Dilute	Excellent

SUPPLY INFORMATION

Stock No : TRK19060

Description : PlasSteel

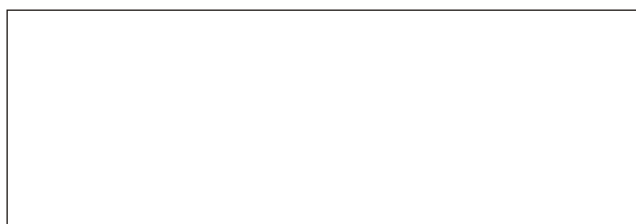
Pack Size : 0.125 kg

* for further information see Chemical Resistance Chart

RECOMMENDED APPLICATIONS

- Re-inforcement to 'Rapid Setting Super Metal Repair Paste' In arresting transformer oil leakages
- Arresting of water leakages, repairs in submerged conditions
- Repairing of threaded portions, scorings
- Repairing of castings, worn threads, jigs and mould patterns
- Rebuilding of pump casings
- Repairing of damaged or oversized bearing housings
- On line arresting of water leakages from flanges, pipes

Distributor catering to your needs



25/34, New Jagnath Plot,
 Rajkot - 360 001 (Gujarat) India.
 Phone : +91-281-2460162, 2467521
 Fax : +91-281-2465430
 E-mail : info@procoat-india.com
 Website: www.procoat-india.com