

# SUPER LOW FRICTION EFFICIENCY COATING

## ThistleBond

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



ThistleBond 'Super Low Friction Efficiency Coating' is a high performance solvent free coating designed for use as a resurfacing and lining system to improve efficiency in fluid flow environments. ThistleBond 'Super Low Friction Efficiency Coating' is based on a specifically selected blend of polymers and non toxic polyamino curing agents reinforced with carbide and inert flow enhancing pigments which produces a system with optimum physical and mechanical strengths and excellent resistance to erosion, corrosion and cavitation.

ThistleBond 'Super Low Friction Efficiency Coating' offers a highly smooth, non-porous, glazy surface coating when applied by good bristle brush. It bonds effectively on fired ceramics, glass & metal substrates. With its excellent resistance to humidity, prevents permeation of moisture and it offers superior chemical resistance (SALT FOG Test successfully crossed more than 10,000 hours) which helps most efficiently to protect the coated surface from atmospheric / saline / chlorinated / chemical surroundings.

ThistleBond 'Super Low Friction Efficiency Coating' is simple, safe and easy to use and its excellent low friction surface improves flow rates in pumps and pipelines which makes it an ideal choice for protection of water boxes, tube sheets, pumps, impellers, valves and heat exchangers. In addition to that there would be power saving.

## SURFACE PREPARATION & APPLICATION PROCEDURE

### Surface Preparation

Emery, filing, grinding methods is best suited for ceramic surfaces. For metal substrates abrasive blast cleaning to SA 2.5 standard is highly advised to improve surface profile along with dry and rough surface.

### Cleaning

Use ThistleBond 'Cleaner' for removing dust, dirt, oil stains and to prevent deposition of any film formation.

### Application

Mix Resin & Hardener in advised ratio and stir contents to get uniform colour consistency. Apply with good bristle brush over the surface uniformly. 'Super Low Friction Efficiency Coating' will enter into the finest pores / pittings and fills up to form a high glazy, non-porous, extremely low friction surface thereby extending life of equipment substantially.

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## PHYSICAL PROPERTIES

Abrasion Resistance	0.08 ml loss / 1000 cycles
ASTM D4060	CS17 wheel 1 kg load
Impact Resistance	40 joules
ASTM D256	(355 in lbs)
Tensile Shear Adhesion	175 kg/cm <sup>2</sup>
ASTM D1002	(2500 psi)
Corrosion Resistance	10000 hours
ASTM B117	unaffected
Flexural Strength	570 kg/cm <sup>2</sup>
ASTM D790	(8100 psi)
Compressive Strength	700 kg/cm <sup>2</sup>
ASTM D695	(10000 psi)
Dielectric Strength	> 12 kV/mm
ASTM D149	
Hardness Shore D	85
Recommended Thickness	250 microns
Coverage per kilogram	2.7 m <sup>2</sup> @ 250 microns

## PHYSICAL CONSTANTS

Mixing Ratio	Resin	Hardner
By volume	2	1
Appearance	Resin	Hardner
Liquid	Thixotropic Coloured	Clear
Drying Time @ 20°C		
Usable Life	45 Minutes	
Touch Dry	6 Hours	
Volume Solids	100%	
VOC	Nil	
Operating Temperature	Maximum	Continuous
Dry Heat	150 °C	120 °C
Wet Heat	80 °C	60 °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
Crude / Petrol	Excellent
Nitrous Oxide	Excellent
Sulfuric Acid 0-20%	Excellent
Sulphur Dioxide	Excellent
Sea Water	Excellent

## SUPPLY INFORMATION

**Stock No** : TR210  
**Description** : Super Low Friction Efficiency Coating  
**Pack Size** : 1 kg

\* for further information see Chemical Resistance Chart

## RECOMMENDED APPLICATIONS

- Glazy improvement coating for CT's, PT's, isolators
- Improves IR value of aged, dull, eroded / moisture penetrated and porous ceramic discs of electrical equipment
- Insulation of bus-bars, jumpers, OHT lines to prevent bird faults
- Corrosion protection coating of pumps, impellers, valves, heat exchangers, tube sheet surface areas
- Improving efficiency of pumps by providing extremely low friction surface coating

## Distributor catering to your needs



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