

# ANTI-CORROSION ALUMINIUM

## ThistleBond

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



ThistleBond 'Anti-Corrosion Aluminium' is a high performance, high solids anti-corrosive coating designed for use as a long term protection system of new and existing steel structures where surface preparation is restricted. Specifically this system is designed for use over steel structures, towers, transformers etc, which are subjected to the chemical and atmospheric corrosion.

ThistleBond 'Anti-Corrosion Aluminium' is based on a complex blend of polymer resin and a specially formulated polyamine curing system, reinforced with a unique combination of anti-corrosive pigments and rust penetrates to produce a system which provides optimum adhesion, weather and corrosion resistance in virtually any environment.

ThistleBond 'Anti-Corrosion Aluminium' offers excellent adhesion to steel surfaces either manually prepared or blasted cleaned with good compatibility with existing coatings which cannot be removed. Application can be done by brush, roller or spray.

## SURFACE PREPARATION & APPLICATION PROCEDURE

### Steel Surfaces

All steel surfaces to be coated can be cleaned by mechanical means like coarse wire brush, grinding, wire wheel cleaning or coarse emery. Blasting can also be done to SA 2.5.

### Previously Coated Surface

Where existing coating is not possible to remove, mechanical cleaning can be done to ensure rough surface without any loose particles.

### Aluminium Surfaces

Should be thoroughly abraded using 180 grade emery paper and ideally primed with ThistleBond 'MA9 Tie-Coat' or 'MA3 Tie-Coat'.

### Application

'Anti-Corrosion Aluminium' to be mixed in 1:1 ratio, and stir thoroughly till single colour liquid appears and it has a working time of 90 minutes, it can be applied over prepared surface by brush, roller or spray based on access & feasibility.

### Adhesion

'Anti-Corrosion Aluminium' adheres excellently to both manually cleaned or blast cleaned surfaces without peel off tendency even at higher temperatures and extreme cold conditions.

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### PHYSICAL PROPERTIES

Direct Pull Adhesion	63 kg/cm <sup>2</sup>
ASTM D4541	(900 psi)
Impact Resistance	Direct Pass 0.2" (5 mm)
BS 3900 Part E3	Reverse Pass 0.2" (5 mm)
Humidity Resistance	5000 hours
BS 3900 Part F2	Unaffected exposure
Salt Fog Resistance	10000 hours
ASTM B117	unaffected
Tensile Shear Adhesion	175 kg/cm <sup>2</sup>
ASTM D1002	(2500 psi)
Recommended Thickness	Wet 140 microns
	Dry 125 microns
Coverage per litre	7 m <sup>2</sup> @ 125 microns

### PHYSICAL CONSTANTS

Mixing Ratio	Resin	Hardner
By volume	1	1
Appearance	Resin	Hardner
Thixotropic Liquid	Metallic	Light Brown
Drying Time @ 20°C		
Usable Life	90 Minutes	
Touch Dry	6 Hours	
Volume Solids	90%	
VOC	78 gms/litre	
Shelf Life	5 years	

### SUPPLY INFORMATION

**Stock No** : TL515

**Description** : Anti-Corrosion Aluminium

**Pack Size** : 2.5 litre

\* for further information see Chemical Resistance Chart

### CHEMICAL RESISTANCE (unaffected by Spillage) \*

Acetic Acid	Excellent
Hydrochloric Acid	Excellent
Phosphoric Acid	Excellent
Sodium Hydroxide	Excellent
Nitrous Oxide	Excellent
Sulfuric Acid	Excellent
Sulphur Dioxide	Excellent
Chlorine	Excellent
Sea Water	Excellent

### RECOMMENDED APPLICATIONS

- Corrosion protection of transmission structures / metal Installations in substations
- Corrosion protection of transformers
- Protective coating over storage tanks from saline atmosphere
- Protective coating for external surface area of storage tanks from the corrosive chemical atmosphere, chemical fumes, gas or pollution
- Corrosion protection coating of chemical spillage areas over metal surface
- Protective coating of pipe lines in marine environment

### Distributor catering to your needs



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