

# 152 SFE

## ThistleBond

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



ThistleBond '152 SFE' is a high performance solvent free, 100% solids, high build coating system designed for use as a corrosion resistance coating for wood, metal, phenolic and GRP surfaces under total immersion conditions.

ThistleBond '152 SFE' utilizes a special blend of polymer resins and a polyamino-amide curing system reinforced with inert pigments and inorganic fillers to produce a coating with good physical properties and corrosion resistance together with a high tolerance to manually prepared surfaces. It gives a hardwearing and surface tolerance coating with excellent resistance against salt water. The unique system prevents "permeation" (the cross linked polymer matrix structure prevents ingress & penetration of chemical & moisture molecules).

ThistleBond '152 SFE' offers exceptional application and film build properties enabling high film thickness in a single coat and is ideal for hulls of boats and yachts, finish for decks, deck fittings, cargo holds.

## SURFACE PREPARATION & APPLICATION PROCEDURE

### Steel Surfaces

All steel surfaces to be coated should be abrasive blast cleaned to a minimum SA 2 in accordance with BS7079 Part A1:1989, near white metal finish. All loose abrasive dust and debris must be blown clear or vacuum cleaned away. Hydro cleaning may be required to remove absorbed salts / chemicals and neutralization is to be done prior coating. Coating should be done within 2-4 hours of blasting. Open air surfaces can be cleaned by mechanical wire brush, grinding or high pressure water jetting to achieve Swedish Standard St2-St3.

### GRP Surfaces

Surface should be thoroughly abraded with 80 grade paper to remove all surface contamination. For osmosis repair, on gelcoat use a random orbit sander to achieve a uniform surface.

### Previously Coated Surface

Should be abraded using 180 grade emery paper.

### Aluminium Surfaces

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

### Application Procedure

Steel / GRP / Aluminium surface should be prepared as mentioned above. Ensure humidity is less than 90% and temperature above 20°C at the time of application. '152 SFE' to be mixed in 3:1 ratio, stir contents thoroughly until homogeneous mixing takes place. '152 SFE' can be applied by good / short bristle brush. For larger areas, it can be applied by brush / roller / airless spray equipment. The mixed material should be used within 50 minutes. For larger areas airless spray is advisable.

### Durability

Continuous research & development in the area of chemical corrosion protection resulted in developing '152 SFE'. A proper application of this product will extend life of equipment from the effect of corrosion substantially. Recommended thickness is 150 microns but increasing thickness will increase the life in multiples.

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**PHYSICAL PROPERTIES**

Abrasion Resistance	40 mg loss / 1000 cycles
ASTM D4060	CS17 wheel 1 kg load
Impact Resistance	2.6 joules
ASTM G14	(23 in lbs)
Dry Heat Resistance	100 °C
ASTM D2485	
Salt Fog Resistance	10000 hours
ASTM B117	unaffected
Humidity Resistance	5000 hours
BS 3900 Part F2	
Water vapour Permeability	1.2 gm.mm / m <sup>2</sup> / 24 hours
ASTM D1653	
Direct Pull Adhesion	63 kg/cm <sup>2</sup>
ASTM D4541	(900 psi)
Recommended Thickness	150 - 200 microns
Coverage per litre	6.5 m <sup>2</sup> @ 150 microns

**PHYSICAL CONSTANTS**

Mixing Ratio	Resin	Hardner
By volume	3	1
Appearance	Resin	Hardner
Liquid	Thixotropic Coloured	Opaque
Drying Time @ 20°C		
Usable Life	50 Minutes	
Touch Dry	12 Hours	
Hard Dry	16 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
Phosphoric Acid < 75%	Satisfactory
Nitric Acid 0-10%	Excellent
Sodium Hydroxide	Excellent
Nitrous Acid Dilute	Excellent
Sulfuric Acid 0-20%	Excellent
Sulphur Dioxide Wet	Excellent
Hydroflouric Acid 10%	Satisfactory
Chlorine	Satisfactory
Sea Water	Excellent

**SUPPLY INFORMATION**

<b>Stock No</b>	: TL501	TL503
<b>Description</b>	: 152 SFE	152 SFE AS
<b>Pack Size</b>	: 1 litre	20 litre

Note : AS stands for airless spray.

\* for further information see Chemical Resistance Chart

**RECOMMENDED APPLICATIONS**

- Corrosion protection of cargo holds, cargo decks and cargo fittings, hull of boats, yachts
- Structural steel work of towers, bridges
- HCL, H<sub>2</sub>SO<sub>4</sub> and other corrosive acid storage tanks external surface area coatings
- Protective coating for the external surface area of storage tanks from the corrosive chemical atmosphere, chemical fumes, chemical gas exposure

**Distributor catering to your needs**



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