

POLYURETHANE FINISH

ThistleBond

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



ThistleBond 'Polyurethane Finish' is a high performance polyurethane finish system specifically developed for long term cosmetic protection of all types of structures such as concrete, brickwork, plaster, GRP, steel, aluminium or galvanized steel.

ThistleBond 'Polyurethane Finish' is based on a unique blend of polyester and urethane polymers reinforced with colour stable, chemical resistant pigments to produce a system which offers outstanding weather, abrasion, chemical and graffiti resistance together with optimum gloss and colour stability.

ThistleBond 'Polyurethane Finish' is totally unaffected by extreme levels of ultra violet light and offers outstanding protection to internal and external surfaces.

SURFACE PREPARATION & APPLICATION PROCEDURE

Surface Preparation

All surfaces should be cleaned by mechanical or blasting methods, checking of salt, rust producing salts etc to be checked and neutralized. Surfaces should be dry. Aluminium, galvanized steel and abrasive blasted steel surfaces should be primed with ThistleBond 'MA3 Tie-Coat' or 'MA9 Tie-Coat' before application of 'Polyurethane Finish'. Manually prepared steel surfaces should be primed with ThistleBond 'Anti-Corrosion Aluminium'.

Mixing

'Polyurethane Finish' is a two component material which must be mixed together in 4:1 ratio prior to use. Resin component should be thoroughly stirred to incorporate any slight separation, whilst continuing stirring contents of hardener container should be added. Continue stirring until a homogeneous mix is obtained.

Application Procedure

Application should be done when relative humidity is less than 85% and substrate temperature is higher than 3°C. 'Polyurethane Finish' is primarily supplied for application by conventional or airless spray. However, for small areas it can be applied by brush or roller. Ensure to use good short bristle brush and applied with even coats.

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PHYSICAL PROPERTIES

Abrasion Resistance	25 mg loss / 500 cycles
ASTM D4060	CS10 wheel
Impact Resistance	No failure
BS 2782 Part 3	(0.9 kg load dropped 45 cm)
Water Vapour Permeability	1.2 gm/mm/m ² /24 hours
ASTM D1653	
Salt Fog Resistance	5000 hours
ASTM B117	unaffected
Scratch Resistance	No failure 2.5 kg load
BS 3900 Part E2	
UV Resistance	1000 hours QUV-B no loss
ASTM G53	of gloss, no colour change
Recommended Thickness	Wet 100 microns
	Dry 50 microns
Coverage per litre	10 m ² @ 50 microns

PHYSICAL CONSTANTS

Mixing Ratio	Resin	Hardner
By volume	4	1
Appearance	Resin	Hardner
Liquid	Coloured	Clear
Drying Time @ 20°C		
Usable Life	2 Hours	
Touch Dry	1 Hours	
Hard Dry	4 Hours	
Volume Solids	50%	
VOC	370 gram/litre	
Shelf Life	5 years	

SUPPLY INFORMATION

Stock No : TL535
Description : Polyurethane Finish
Pack Size : 5 Litre

* for further information see Chemical Resistance Chart

SPECIALITY CHARACTERISTICS

Fire Performance

Meets requirements of BA476 Part 7 Class 1 surface spread of flame BS476 Part 6 Class 0 in accordance with UK Building Regulations 1985 Approvals Document B2/3/4 Appendix A, when applied to a variety of primed substrates.

Ultra Violate Resistance

With 10000 hours of UV resistance, the Gloss & Colour of substrate will remains unchanged for very longer periods.

RECOMMENDED APPLICATIONS

- Protective coating of any substrate from weather, abrasion, chemical and graffiti resistance
- Cosmetic protection of equipment of any substrate
- Protecting the monuments, equipment from the extreme levels of ultra violet rays
- Protection of metal, steel, concrete, brickwork, plaster, GRP, aluminium or galvanized steel parts/equipment to maintain the gloss and colour stability

Distributor catering to your needs



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