

HYCOTE 162

ThistleBond

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



ThistleBond 'Hycote 162' is a high performance solvent free, 100% solids, coating system designed for protection from chemical corrosion in aggressive environments.

ThistleBond 'Hycote 162' is based on special liquid polymer reacted with a blend of amine and polyamino resins reinforced with inert pigments and silicas which produce a coating with exceptional physical properties, chemical and corrosion resistance. The Unique system prevents "permeation" (the cross linked polymer matrix structure prevents ingress & penetration of chemical & moisture molecules). It offers an exceptional adhesion to steel, concrete and has outstanding abrasion and erosion resistance.

ThistleBond 'Hycote 162' and is ideal for protecting acid tanks, containment areas, steel work and industrial floors.

SURFACE PREPARATION & APPLICATION PROCEDURE

Steel Surfaces

All steel surfaces to be coated should be abrasive blast cleaned to a minimum SA 2.5 in accordance with BS7079 Part AI: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 the absorbed salts / chemicals and neutralization is to be done prior to 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.

Previously Coated Surface

Should be abraded using 180 grade emery paper or blast cleaned.

Concrete Surface

Should be thoroughly abraded or slightly blasted to get a good and rough surface. Care should be taken not to expose the aggregate in concrete. Hydro jetting can also be used. Ideally the surface should be primed with ThistleBond 'MA9 Tie-Coat' or 'MA3 Tie-Coat'.

Application Procedure

Steel / Concrete surfaces should be prepared as mentioned above. Ensure humidity is less than 90% and temperature above 20°C at the time of application. 'Hycote 162' to be mixed in 2:1 ratio, stir the contents thoroughly until homogeneous mixing takes place. 'Hycote 162' 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 45 minutes. For larger areas airless spray is advisable.

Durability

Continuous research & development in the area of chemical corrosion protection resulted in developing 'Hycote 162'. A proper application of this product will extend life of the equipment from the effect of corrosion substantially. Recommended thickness is 250 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 D248	
Salt Fog Resistance	10000 hours
ASTM B117	unaffected
Humidity Resistance	5000 hours
BS 3900 Part F2	
Water vapour Permeability	1.2 gm.mm / m ² / 24 hours
ASTM D1653	
Direct Pull Adhesion	63 kg/cm ²
ASTM D4541	(900 psi)
Recommended Thickness	250 microns
Coverage per litre	4 m ² @ 250 microns

PHYSICAL CONSTANTS

Mixing Ratio	Resin	Hardner
By volume	2	1
Appearance	Resin	Hardner
Liquid	Viscous Coloured	Clear Amber
Drying Time @ 20°C		
Usable Life	45 Minutes	
Touch Dry	6 Hours	
Full Cure	7 Days	
Volume Solids	100%	
VOC	Nil	
Shelf Life	5 years	
Food Contact	Meets USDA & FDA requirements	

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
Hydrofluoric Acid 10%	Satisfactory
Chlorine	Satisfactory
Sea Water	Excellent

SUPPLY INFORMATION

Stock No : TPC662

Description : Hycote 162

Pack Size : 5 litre

* for further information see Chemical Resistance Chart

RECOMMENDED APPLICATIONS

- Corrosion protection of acid tanks internal surfaces, containment areas
- Structural steel work of towers, bridges
- Chemical protection of industrial floors, storage areas, concrete surfaces
- Protective coating for external surface area of storage tanks from corrosive chemical atmosphere, chemical fumes, chemical gas exposure
- Marine equipment corrosion protection

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