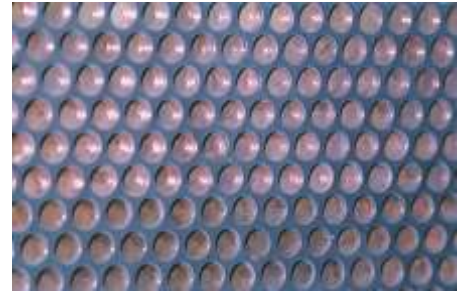


CERAMIC CARBIDE 88

ThistleBond

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



ThistleBond 'Ceramic Carbide 88' is a high performance ceramic enhanced polymer resin coating designed to use as a lining for equipment in fluid flow environments to protect from erosion and corrosion. 'Ceramic Carbide 88' is based on a high molecular weight polymer resins and a polyamine adduct reinforced with carbide and inert flow enhancing pigments to produce a coating system with a high level of abrasion, adhesion and erosion resistance combined with optimum physical and mechanical strength along with excellent resistance to corrosive liquids.

ThistleBond 'Ceramic Carbide 88' can be applied by brush, roller or spray to any corroded or damaged component in one easy application. It has an excellent adhesion to grit blasted and manually prepared surfaces which makes it an ideal lining for pumps, impellers, propellers, guide vanes, valves, tube sheets, water boxes, rudders, heat exchangers where long term corrosion protection is required. The lining of 'Ceramic Carbide 88' will prevent the ingress of chemicals / corrosive molecules and protect the surface for longer periods. 'Ceramic Carbide 88' has an excellent resistance to chemical corrosion (Test of SALT FOG passed for 5000 hours), humidity and impact, which ensures a full proof repair in any working condition.

SURFACE PREPARATION & APPLICATION PROCEDURE

Remove thick deposits like grease, rust, dust, dirt and make surface rough enough. Clean with ThistleBond 'Cleaner'. Surface should be prepared by mechanical grinding / wire wheel / angle grinder / needle gun or by abrasive blasting to SA 2.5 profile. Cross score surface to improve adhesion especially for fluid flow equipments. Check for salt content and if any should be removed by appropriate methods. Water cleaning / neutralization are required. Surface profile is advised to be around 75 microns.

Mix Resin & Hardener in 3.5:1 ratio by volume and mix thoroughly till single colour consistency appears. Apply by brush, roller or air less spray. Ensure at the time of application that substrate temperature is more than 3°C and humidity is less than 90%.

CERAMIC CARBIDE 88

PHYSICAL PROPERTIES

Flexibility	32 %
ASTM D522-4	
Impact Resistance	Direct - 5 mm
BS 3900 E3	Reverse - 2.5 mm
Tensile Shear Adhesion	140 kg/cm ²
ASTM D1002	(2000 psi)
Salt Fog Resistance	5000 hours
ASTM B117	unaffected
Humidity Resistance	5000 hours
BS 3900 Part F2	unaffected
Direct Pull Adhesion	70 kg/cm ²
ASTM D4541	(1000 psi)
Dry Heat Resistance	120 °C
ASTM D246	
Dielectric Strength	12 kV/mm
ASTM D149	
Recommended Thickness	Wet 200 microns
	Dry 125 microns
Coverage per kilogram	3.7 m ² @ 125 microns

SUPPLY INFORMATION

Stock No : TR225

Description : Ceramic Carbide 88

Pack Size : 5 kg

* for further information see Chemical Resistance Chart

RECOMMENDED APPLICATIONS

- Protective coating for pump bodies, impellers, propellers
- Protective coating of valves, tube sheets, volutes
- Corrosion protection coating of CW water boxes handling seawater
- Protection of heat exchangers

Distributor catering to your needs

PHYSICAL CONSTANTS

Mixing Ratio	Resin	Hardner
By volume	3.5	1
Appearance	Resin	Hardner
Liquid	Thixotropic	Clear
Drying Time @ 20°C		
Usable Life	4 Hours	
Touch Dry	1 Hour	
Hard Dry	8 Hours	
Volume Solids	65%	
VOC	372 gm/ litre	
Spray	Airless	
Pump Ratio	30:1	
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



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