

FLEXIBLISED FLUID CERAMIC CARBIDE COMPOUND

ThistleBond

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



ThistleBond 'Flexiblised Fluid Ceramic Carbide Compound' is a high performance solvent free flexible poly ceramic repair coating designed for resurfacing of equipment in fluid flow environments.

'Flexiblised Fluid Ceramic Carbide Compound' is based on a complex blend of high molecular weight and urethane polymers blended with inert pigments and silicas reacted with an amine accelerated isocyanate resin which produces a system with optimum physical and mechanical strength. 'Flexiblised Fluid Ceramic Carbide Compound' offers a high performance system with outstanding protection against impingement, entrainment, cavitations, erosion and corrosion.

ThistleBond 'Flexiblised Fluid Ceramic Carbide Compound' can be applied by brush 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 for resurfacing pumps, impellers, propellers, kort nozzles, guide vanes, valves, tube sheets etc., where long term protection from impact, ingress of corrosive molecules is required.

ThistleBond 'Flexiblised Fluid Ceramic Carbide Compound' has a very high insulation value making it one of the best product for insulation of bus-bars, jumpers, OHT lines to prevent bird faults.

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.

Mix Resin & Hardener in 3:1 ratio by volume and mix thoroughly till single colour consistency appears. 'Flexiblised Fluid Ceramic Carbide Compound' can be applied by brush. Apply material over the surface, because of thixotropic consistency material by a little force will enter into the pitting & cavities. Final cure will give a smooth coating over the surface.

FLEXIBLISED FLUID CERAMIC CARBIDE COMPOUND

PHYSICAL PROPERTIES

Flexibility	30 %
ASTM D522-4	
Impact Resistance	20 joules
ASTM D256	(175 in lbs)
Tensile Strength	200 kg/cm ²
ASTM D412	(2825 psi)
Corrosion Resistance	5000 hours
ASTM B117	unaffected
Abrasion Resistance	0.08 ml loss / 1000 cycles
ASTM D4060	CS17 Wheel 1 kg load
Dielectric Strength	20 kV/mm
ASTM D149	
Hardness (Shore D)	80

PHYSICAL CONSTANTS

Mixing Ratio	Resin	Hardner
By volume	3	1
Appearance	Resin	Hardner
Liquid	Thixotropic Light Grey	Brown
Drying Time @ 20°C		
Usable Life	20 Minutes	
Touch Dry	2 Hours	
Hard Dry	4 Hours	
Volume Solids	100%	
VOC	Nil	
Operating Temperature	Maximum	Continuous
Dry	150°C	80°C
Wet	80°C	50°C
Shelf Life	5 Years	

SUPPLY INFORMATION

Stock No : TR235

Description : Flexiblised Fluid Ceramic Carbide Compound

Pack Size : 1 kg

* for further information see Chemical Resistance Chart

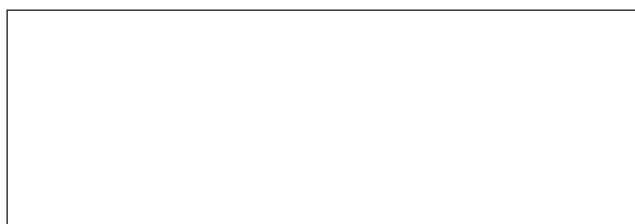
CHEMICAL RESISTANCE *

Acetic Acid 0-10%	Good
Hydrochloric Acid 0-20%	Excellent
Hydrobromic Acid Dilute	Excellent
Nitric Acid 0-10%	Excellent
Nitrous Oxide	Excellent
Sulfuric Acid 0-20%	Excellent
Sulphur Dioxide	Excellent
Sea Water	Excellent

RECOMMENDED APPLICATIONS

- Protective coating for pump bodies, impellers, propellers
- Protective coating of valves, volutes
- Rebuilding & resurfacing of condenser water boxes
- Rebuilding the pitting & cavities of the condenser tube sheet surface
- Resurfacing the guide vanes
- Insulation of bus-bars, jumpers, OHT lines to prevent bird faults

Distributor catering to your needs



25/34, New Jagnath Plot,
Rajkot - 360 001 (Gujarat) India.
Phone : +91-281-2460162, 2467521
Fax : +91-281-2465430
E-mail : info@procoat-india.com
Website: www.procoat-india.com