

HEAVY DUTY CERAMIC CARBIDE COMPOUND

ThistleBond

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



ThistleBond 'Heavy Duty Ceramic Carbide Compound' is a high performance abrasion resistant metal repair compound specifically designed for use where resistance to sliding abrasion is required. 'Heavy Duty Ceramic Carbide Compound' is based on a complex blend of polymer resins and a polyamino-amide curing system reinforced with carbide and ceramic particles to produce a coating system with a high level of adhesion, sliding abrasion and erosion resistance combined with optimum physical and mechanical strength along with excellent resistance to corrosive liquids.

'Heavy Duty Ceramic Carbide Compound' offers an outstanding protection against sliding abrasion, entrainment and erosion / corrosion conditions. It can be applied by spatula to any corroded or damaged component in one easy application. It has an excellent adhesion to most metallic surfaces prepared manual or grit blasted. It offers an outstanding protection to chutes, hoppers, pipe elbows, chippers, valves, pumps and equipment subject to aggressive attack from dry solids and slurries. 'Abrasion Resistant Ceramic Carbide Fluid' has an outstanding resistance to chemical corrosion (Test of SALT FOG passed for 5000 hours) and humidity, 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 3:1 ratio by volume and should be thoroughly mixed until completely streak free. 'Heavy Duty Ceramic Carbide Compound' can be applied by spatula. Ensure at the time of application that substrate temperature is more than 3°C and humidity is less than 90%.

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PHYSICAL PROPERTIES

Abrasion Resistance	20 mg loss / 1000 cycles
ASTM D4060	CS17 wheel 1 kg load
Heat Distortion	60°C
ASTM D648	
Tensile Shear Adhesion	140 kg/cm ²
ASTM D4060	(2000 psi)
Corrosion Resistance	5000 hours
ASTM B117	unaffected
Flexural Strength	420 kg/cm ²
ASTM D790	(6000 psi)
Compressive Strength	1055 kg/cm ²
ASTM D695	(15000 psi)
Hardness Rockwell R	100
ASTM D785	
Food Contact	Meets FDA CFR Requirements

PHYSICAL CONSTANTS

Mixing Ratio	Resin	Hardner
By volume	3	1
Appearance	Resin	Hardner
Paste	Dark Grey	Off White
Drying Time @ 20°C		
Usable Life	60 Minutes	
Initial Set	3 Hours	
Grinding Time	8 Hours	
Volume Solids	100%	
VOC	Nil	
Operating Temperature	Maximum	Continuous
Dry	200°C	120°C
Wet	120°C	70°C
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

SUPPLY INFORMATION

Stock No : TR240

Description : Heavy Duty Ceramic Carbide Compound

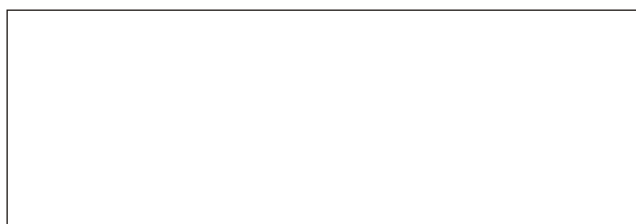
Pack Size : 5 kg

* for further information see Chemical Resistance Chart

RECOMMENDED APPLICATIONS

- Abrasion protective coating of pumps
- Protective coating of valves, ash slurry pumps, volutes
- Sliding abrasion protection of coal / ore hoppers
- Abrasion / erosion protection of pipe lines, pipe bends, elbows, chippers
- Protective coating over coal chutes

Distributor catering to your needs



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