

80 DUROMETER BRUSHING ELASTOMER

ThistleBond

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



ThistleBond '80 Durometer Brushing Elastomer' is a high performance brushing grade elastomer which has been specifically developed for brush repair of rubber components and is suitable for use on impellers, chutes, hoppers, valves, rollers, gaskets, hoses, conveyor belts, off road tyres, pipe trench, bund areas, cables etc by trowel or putty knife. '80 Durometer Brushing Elastomer' is formulated on a complex range of polyols and polyesters in combination with amine catalysts and activators to produce a cold vulcanizing product with outstanding mechanical strength having >600% Elongation.

'80 Durometer Brushing Elastomer' is designed to match factory produced rubbers.

SURFACE PREPARATION & APPLICATION PROCEDURE

Metal Surfaces

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 to improve adhesion especially for fluid flow equipments.

Rubber Surfaces

Dirt / mud to be removed. All loose, frayed or fragmented rubber should be cut and removed (with rotary wire wheel). Surface has to be cleaned to produce a sound, rough, abraded surface for proper bonding. Clean the surface with ThistleBond 'Cleaner'.

Priming

The primer should be applied with soft bristled brush to give an even, but low coating thickness and allow for 10-20 minutes before applying ThistleBond '80 Durometer Brushing Elastomer'.

Application of '80 Durometer Brushing Elastomer'

Mix Resin & Hardener in 1.17:1 ratio by volume and mix thoroughly till single colour consistency appears. Apply by spatula, initially by finger over prepared surface by wetting action to fill up deformities and to remove entrapped air from the surface. Then apply further based on deformity. Once cured, it forms a tough, flexible repair.

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PHYSICAL CONSTANTS

Mixing Ratio	Resin	Hardner
By volume	1.17	1
Appearance	Resin	Hardner
	Black Fluid	Clear Viscous Liquid
Drying Time @ 20°C		
Usable Life	15 Minutes	
Initial Set	1 Hour	
Machining	16 Hours	
Volume Solids	100%	
VOC	Nil	
Operating Temperature	Maximum	Continuous
Dry Heat	120°C	80°C
Wet Heat	80°C	50°C
Shelf Life	1 year	

PHYSICAL PROPERTIES

Tensile Strength	105 kg/cm ²
ASTM D412	(1500 psi)
Tear Strength	49 N/mm
ASTM D624	(275 pli)
Elongation	> 600%
ASTM D412	
Dielectric Strength	16 kV/mm
ASTM D149	
Hardness Shore A	80
ASTM D2240	
Coverage per kilo	1.9 m ² @ 500 microns

CHEMICAL RESISTANCE *

Ammonium Hydroxide 10%	Excellent
Hydrochloric Acid 0-20%	Excellent
Hydraulic Oil / Diesel	Excellent
Transformer Oil	Good
Liquid Petroleum	Excellent
Nitrous Oxide	Excellent
Sulfuric Acid 0-20%	Good
Kerosene / Lubricating oil	Excellent
Sulphur Dioxide	Excellent
Sea Water	Excellent

SUPPLY INFORMATION

Stock No	:	TR325
Description	:	80 Durometer Brushing Elastomer
Pack Size	:	2 x 0.600 kg

* for further information see Chemical Resistance Chart

RECOMMENDED APPLICATIONS

- In-Situ repairs resurfacing worn conveyor belting surface, through cuts, patch repairs, groove repairs of conveyor belting in mineral/ore/coal industries
- Abrasion protection lining of chutes/hoppers/valves
- Abrasion protection coating over impellers in slurry application
- Repair of HEMM/mining equipment's rubber components
- Formation of gaskets over flanges even in high temperature areas where surface undulations are to be overcome with flexible/removable provision
- Used for brush repair of rubber components

Distributor catering to your needs



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