

# 80 DUROMETER FLUID ELASTOMER

## ThistleBond

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



ThistleBond '80 Durometer Fluid Elastomer' is a high performance fluid grade elastomer which has been specifically developed for casting and moulding 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 Fluid 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 Fluid 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 surface 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 '80 Durometer Fluid Elastomer'.

### Application of '80 Durometer Fluid Elastomer'

Mix Resin & Hardener in 1.08:1 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.

## 80 DUROMETER FLUID ELASTOMER

## PHYSICAL CONSTANTS

Mixing Ratio	Resin	Hardner
By volume	1.08	1
Appearance	Resin	Hardner
Viscous Liquid	Black	Clear
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	15.2 N/mm <sup>2</sup>
ASTM D412	(2200 psi)
Tear Strength	53.2 N/mm
ASTM D624	(300 pli)
Elongation	600%
ASTM D412	
Dielectric Strength	16 kV/mm
ASTM D149	
Hardness Shore A	80
ASTM D2240	

## 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

<b>Stock No</b>	:	TR315
<b>Description</b>	:	80 Durometer Fluid Elastomer
<b>Pack Size</b>	:	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 edges / cuts of OFF ROAD tyres of HEMM / mining equipment
- Formation of gaskets over flanges even in high temperature areas where surface undulations are to be overcome with flexible / removable provision

## Distributor catering to your needs



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