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TECHNICAL DATA SHEET

'60' DUROMETER Fluid Elastomer

ThistleBond '60 DUROMETER Fluid Elastomer' is a 60 Durometer high performance fluid elastomer which has been specifically developed for the resurfacing of rubber components and is suitable for use on impellers, chutes, hoppers, valves, rollers, gaskets, hoses, conveyor belts, off road tyres etc.

ThistleBond '60 DUROMETER Fluid Elastomer' is based on a complex blend of polyols and polyesters in combination with amine catalysts and activators to produce a cold vulcanising product with outstanding mechanical strength.

The properties of **ThistleBond '60 DUROMETER Fluid Elastomer'** have been designed to match factory produced rubbers.

Before proceeding, please read the following information carefully to ensure that the correct application procedure is fully understood.

SURFACE PREPARATION

All existing dirt, oil and grease should be removed and the surface wiped with **ThistleBond 'Cleaner'**.

Any areas of frayed or fragmented rubber should be cut away to provide a sound repair area.

Smooth surfaces, including metals, should be mechanically etched to produce a good profile, with abrasive blasting being preferred for metal substrates. Rubber surfaces are best roughened using a stiff wire brush / comb.

Edges of repair areas of belts, hoses, tyres etc. should be undercut.

All loose dust and particles should be blown clear of the prepared surface.

On certain repairs such as gaskets and castings where one surface is not required to bond to the **ThistleBond '60 DUROMETER Fluid Elastomer'**, these surfaces should be treated with **ThistleBond 'Release Agent'**.

PRIMING

All areas to be repaired or resurfaced should be first primed with **ThistleBond 'Elastomer Primer'**.

The primer should be applied with a soft bristled brush to give an even, but low coating thickness, taking care to avoid ponding of the primer.

The primer should be allowed a minimum of 60 minutes and a maximum of 8 hours at 20°C (68°F) before applying the **ThistleBond '60 DUROMETER Fluid Elastomer'**

Where a faster drying primer is required **ThistleBond '60 DUROMETER Rapid Paste Elastomer' Primer** can be used. Please refer to **ThistleBond '60 DUROMETER Rapid Paste Elastomer'** Tech Sheet.

MIXING

ThistleBond '60 DUROMETER Fluid Elastomer' is a two component material which must be mixed together prior to use.

The contents of the resin container should be transferred to the mixing container provided. The contents of the hardener should be added to the resin with continuous stirring to produce a streak free viscous liquid.

Where less than full unit mixes are required it is essential that the product be mixed accurately weighing out the quantities of base and activator.

Thorough mixing is extremely important, and once the material appears mixed, a further period of mixing should be carried out to ensure there is no unmixed material.

The mixed material should be used within 30 minutes of mixing at 20°C (68°F).

APPLICATION

For resurfacing the mixed material should be applied evenly to the primed surface with a clean brush. When a second coat is should be applied as soon as possible, after the initial set and within 24 hours of the first coat being applied.

For casting / moulding the mixed product should be poured into the prepared mould, the filled mould should be gently vibrated to aid the release of trapped air.

All equipment must be cleaned IMMEDIATELY after use with **ThistleBond 'Cleaner'**.

Volume Capacity

900cc (54.8 cu ins) per kilo

PHYSICAL CONSTANTS

Mixing Ratio	Resin	Hardener	
	2	1	By volume
	2	1	By weight

Appearance	Resin	Hardener
	Opaque Soft Gel	Coloured Viscous Liquid

Drying & Cure times at

20°C (68°F)	Usable Life	25 minutes
	Initial Set	3 hours
	Machining	16 hours
	Full Mechanical	3 days

Volume Solids	100%
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V.O.C.	Nil
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Shelf Life	Use within 12 months of purchase. Store in original sealed containers at temperatures between 5°C (40°F) and 30°C (86°F)
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Operating Temperature

	Maximum	Continuous
Dry Heat	120°C (250°F)	80°C (176°F)
Wet Heat	80°C (175°F)	50°C (122°F)

FOR FURTHER INFORMATION PLEASE CONTACT

PHYSICAL PROPERTIES

Tensile Strength ASTM D412	70 kg/cm ² (1000 psi)
Tear Strength ASTM D624	36 kg/cm (200 pli)
Elongation ASTM D412	800%
Shore A Hardness ASTM D2240	60
Peel Adhesion (concrete and steel) ASTM D903	9 kg/cm (50 pli) - cohesive failure in Flexi-Tech
Dielectric Strength ASTM D149	16 volts/micron (400 volts/mil)

HEALTH AND SAFETY

As long as normal good practice is observed **ThistleBond '60 DUROMETER Fluid Elastomer'** can be safely used.

Protective gloves should be worn.

A fully detailed **Material Safety Data Sheet** is either included with the material or is available on request.

PACKAGING

Supplied in 0.600 kg packs.

The information provided in this Product Data Sheet is intended as a general guide only and should not be used for specification purposes. The information is given in good faith but we assume no responsibility for the use made of the product or this information because this is outside the control of the company. Users should determine the suitability of the product for their own particular purposes by their own tests. Detailed specifications are available on request from the company.



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