

#### **DATA SHEET**

## **Two Component Casting Polyurethane**

LIONBOND<sup>™</sup> U50A with Hardener U50B

**LIONBOND**<sup>™</sup> U50A/B PU materials for waterproofing, packing, irrigation and bonding of electronic and electrical machinery products. Also for big mold RC, craftstone series tile, molding plate, slate, cement handiwork copy and ceramic molding.

#### Key Properties

- Withstand moisture well, thus also suitable for thin layers
- High tear strength and elongation
- Flexible to -60°C
- · Excellent resistance of alkalinity

### **Applications**

- Foundry Patterns
- · Percussion tools for working sheet metal and plate
- · Flexible moulds and machinery parts
- Core boxes
- Machinery Parts
- · Assembly jigs
- Vibration absorption
- · Impact protection
- · Abrasion and impact resistant parts
- Ceramics Industry
- Rubberlike prototype parts
- Conveyor rollers

Phyical Property		U50A Polyol	U50B Isocynate
	Viscosity, cps	5,000	7,000
	Density, g/cm <sup>3</sup>	1.03	1.07
	Color	Brown	Clear
	Mix Ration, by Weight	100	50

# **Processing** parameters

After weighting the material, pour U50B (isocynate) into stirring container to let the
container become lubricative. Pour U50A (polyol) into stirring the same container and
mix thoroughly by agitator at 100-200rpm for about 1-2 minutes. Please do not agitate
with high speed.

- 2. Put the mixture into the vacuum to degas for about 1-2 minutes and then exhaust approximately 2 times.
- 3. Take out the mixture and pour it into the model. Let the mixture seek its level up and over the model.
- 4. Hardener should be reseal well after using.

Physical Properties	Color	-	Light brown	
	Potlife, 25°C	-	30-60 Mins	
	Tack free	-	4-6 Hrs	
	Demold time	-	24 Hrs	
	Hardness	Shore	A50-60	
	Tensile Strength	Kgf/cm <sup>2</sup>	23	
	Elongation	%	>250	
	Tear Strength	Kgf/cm	12	

## Storage

The resin and hardener should be stored in a dry place at 5-25 °C.

#### **Precautions**

Lion's products are generally quite harmless to handle provided that certain precautions normally taken when handling chemicals are observed. The uncured materials must not, for instance, be allowed to come into contact with foodstuffs or food utensils, and measures should be taken to prevent the uncured materials from coming in contact with the skin, since people with particularly sensitive skin may be affected. The wearing of impervious rubber or plastic gloves will normally be necessary; likewise the use of eye protection. The skin should be thoroughly cleansed at the end of each working period by washing with soap and warm water. The use of solvents is to be avoided. Disposable paper-not cloth towels should be used to dry the skin. Adequate ventilation of the working area is recommended.

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