

DATA SHEET

Two Component Casting Polyurethane LIONBOND™ U90A with Hardener U90B

LIONBOND™ U90A/B PU materials typically used on the decorative coatings of automobiles and motorcycle and other name plates. It is ultraviolet resistance and non yellowing after placing under direct sun light for long period. .

Key Properties

- Withstand moisture well, thus also suitable for thin layers
- High impact resistance
- Excellent adhesion for various metal, non-metallic and plastic.
- Flexible
- Excellent resistance of alkalinity

Application

- Name plate clear coating
- Coating and protection on adornment

Test method for anti-yellowish

1. Soaked in detergent for 24 Hrs.
2. Placed in boiled water for one hour.
3. 100% relative humidity at 100°C for 24 Hrs.
4. Soaked in salty water for 24 Hrs.
5. 60°C x 8Hrs + 50°C. 95% relative humidity 4 Hrs, 10 cycles.

Physical Property

	UM90A Polyol	UM90B Isocynate
Viscosity, cps	6,000-8,000	30-70
Density, g/cm ³	1.03	1.07
Color	Clear	Clear
Mix Ration, by Weight	100	25

Processing parameters

1. Prepare dry and clean container and stir stick.
2. Precisely measure the component with 1:1 parts by weight. Make sure the UM60A/B mixing well.
3. Vacuum.
4. Pour into mold.
5. Could be cure under room temperature or with heat.

Physical Properties	Color	-	Clear
	Potlife,	25°C	40-50 Mins
	Curing Condition	25°C	24 Hrs
		60°C-	60 Mins
	Hardness	Shore	A90
	Shrinkage	%	0.3~0.5
	Impact Resistance	Psi	650-700
	Tensile Strngth	psi	2,550

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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