

LS-30 A/B
30 SHORE A POLYURETHANE ELASTOMER



PRODUCT HIGHLIGHTS:

LS-30 A/B has been developed to provide greater tear strength and more durability than other BJB products in the 30-35 Shore A hardness range.

- Resists moisture absorption
- Low viscosity
- Very easy to use
- Cures at room temperature

PHYSICAL PROPERTIES:

Hardness, Shore A ASTM D-2240.....	30 ± 2
Density (g/cc), cured ASTM D-792	1.01
Cubic Inches per Pound.....	26.9
Color/Appearance.....	Amber, transparent
Tensile Strength, (psi) ASTM D-412	400
Elongation, (%) ASTM D-412.....	800
Tear Strength, (pli) ASTM D-624	65
Shrinkage, (in./in.) linear ASTM D-2566.....	0.009

HANDLING PROPERTIES:

Mix Ratio (by weight):	
Part A	45 parts by weight
Part B	100 parts by weight
Mix Ratio (by volume):	
Part A	42 parts by volume
Part B	100 parts by volume
Specific Gravity:	
Part A	1.08
Part B	1.03
Viscosity, (cps) @ 77°F (25°C) Brookfield:	
Part A	13,500
Part B	120
Mixed.....	500
Color:	
Part A	Amber
Part B	Clear
Work Time, (100-gram mass) @ 77°F (25°C).....	25 minutes
Gel Time	30 minutes
Demold Time @ 77°F (25°C).....	16 - 24 hours (See <u>NOTE</u>)

CURE SCHEDULE/HEAT CURING:

Most of the physical properties can be achieved in 5-7 days at ambient temperature, 77°F (25°C). In order to achieve maximum physical properties, a post cure with heat is required. BJB recommends 24 hours at ambient temperature, 77°F (25°C), followed by 16 hours at 160°F (71°C).

MIXING:

Mix thoroughly, being sure to scrape sides and corners of containers so no unmixed material remains. Vacuum degassing is important to achieving an air free product. To aid the evacuation of air, the use of a surface tension reducing agent, (BJB product AF-4), is necessary. Refer to BJB polyurethane handling guide and data on AF-4 for additional information.

MOLD PREPARATION AND RELEASING:

When LS-30 A/B is used to reproduce molds from plaster, wood or other porous substrates, we would first recommend that they be sealed. Release agents may then be applied over the sealed surface. Consult with BJB’s technical staff for specific release agent recommendations.

NOTE:

Demold times can be reduced by either pre-heating A and B materials prior to casting or by post-curing. Post-curing is most effective at 150°F (66°C). Prolonged direct exposure to sunlight can affect the surface of this product. Cover molds or other products when storing outdoors. **The cure will be inhibited if cast against a tin catalyzed silicone RTV.**

STORAGE:

Store at room temperature in a dry place. Opened containers of material should be purged with dry nitrogen or an equivalent product, prior to replacing lids or caps to prevent moisture contamination. Shelf life is 6 months from date of shipment in unopened containers.

PACKAGING:

Gallon kits.....3.6 lbs. A, 8 lbs. B
5-Gallon kits18 lbs. A, 40 lbs. B
55-Gallon drum kits.....180 lbs. A, 400 lbs. B

SAFETY PRECAUTIONS:

Use in a well-ventilated area. Avoid contact with skin using protective gloves and protective clothing. Repeated or prolonged contact on the skin may cause an allergic reaction. Eye protection is extremely important. Always use approved safety glasses or goggles when handling this product.

IF CONTACT OCCURS:

Skin: Immediately wash with soap and water. Remove contaminated clothing and launder before reuse. It is *not* recommended to remove resin from skin with solvents. Solvents only increase contact and dry skin. Seek qualified medical attention if allergic reactions occur.

Eyes: Immediately flush with water for at least 15 minutes. Call a physician.

Ingestion: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

Refer to the Material Safety Data Sheet before using this product.

NON-WARRANTY "Except for a warranty that materials substantially comply with the data presented in Manufacturer's latest bulletin describing the product (the basis for this substantial compliance is to be determined by the standard quality control tests generally performed by Manufacturer), all materials are sold "AS IS" and without any warranty express or implied as to merchantability, fitness for a particular purpose, patent, trademark or copyright infringement, or as to any other matter. In no event shall Manufacturer's liability for damages exceed Manufacturer's sale price of the particular quantity with respect to which damages are claimed."