



SHORE D SEMI-RIGID URETHANES

"Dedicated to QUALITY, SERVICE, SAFETY, and INNOVATION"

TC-8745 A/B HIGH PERFORMANCE 40 SHORE D POLYURETHANE ELASTOMER

PRODUCT DESCRIPTION:

TC-8745 A/B is a two-component urethane casting compound that is specifically formulated for high abrasion and impact resistance. It is recommended for the casting of highly wear-resistant production parts and linings. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain mercury, MDI, MDA, or MOCA. TC-8745 A/B is relatively insensitive to typical environmental moisture and will make good void-free parts without the problems that some conventional urethane systems exhibit. Because of this product's exceptional toughness and abrasion resistance, castings made with TC-8745 A/B are particularly suitable for mining and mineral process industries.

PRODUCT HIGHLIGHTS:

- Exceptional abrasion and impact resistant
- Contains no mercury, MDI, MDA or MOCA
- Easy to handle
- Room temperature mixing and curing

PHYSICAL PROPERTIES:

Hardness, Shore D ASTM D2240-04e1	40 ± 5
Density, (g/cc) ASTM D792-00	1.12
Cubic Inches per Pound.....	25.5
Color/Appearance.....	Pale Yellow/Translucent
Tensile Strength, (psi) ASTM D638-03	3,330
Tensile Modulus, (psi) ASTM D638-03.....	1,780
Elongation, (%) ASTM D638-03.....	650
Tear Strength, (pli) ASTM D624-00e1.....	355
Shrinkage, (in/in) linear ASTM D2566-.....	0.0015

Note: Reported physical properties base on elevated temperature cured test specimens.

HANDLING PROPERTIES:

Mix Ratio (by weight):

Part A	100 parts by weight
Part B	75 parts by weight

Mix Ratio (by volume):

Part A	100 parts by volume
Part B	79 parts by volume

HANDLING PROPERTIES (continued):

Specific Gravity:	
Part A	1.11
Part B	1.06
Viscosity, (cps) @ 77°F (25°C) Brookfield:	
Part A	11,600
Part B	950
Mixed	4,500
Color:	
Part A	Pale yellow
Part B	Amber
Work Time, (100-gram mass) @ 77°F (25°C).....	20 minutes
Gel Time	40 minutes
Demold Time @ 77°F (25°C).....	8-10 hours

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).

STORAGE:

Store in a cool dry place. Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at room temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING:

Gallon kits.....	8 lbs. A, 6 lbs. B
5-Gallon kits	40 lbs. A, 30 lbs. B
55-Gallon drum kits.....	400 lbs. A, 300 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.