



# TC-8750 A/B

## CASTABLE HIGH PERFORMANCE 55 SHORE D POLYURETHANE ELASTOMER

### PRODUCT DESCRIPTION:

TC-8750 A/B is a two-component urethane casting compound that is specifically formulated for high abrasion and impact resistance. It is recommended for use casting highly wear-resistant parts and linings. This product is safe and easy-to-handle. TC-8750 A/B is relatively insensitive to typical environmental moisture and will make excellent 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-8750 A/B are particularly suitable for mining and mineral process industries.

### PRODUCT HIGHLIGHTS:

- Exceptionally tough, abrasion resistant, high impact material
- Contains no MDI, MDA, OR MOCA
- Easy to handle
- Room temperature mixing and curing

### PHYSICAL PROPERTIES:

Hardness, Shore D ASTM D2240 .....	55 ± 2
Density, (g/cc) cured ASTM D792 .....	1.13
Cubic Inches per Pound .....	23.5
Color/Appearance.....	Amber/Transparent
Tensile Strength, (psi) ASTM D412.....	3,000
Elongation, (%) ASTM D412.....	450
Flexural Strength, (psi) ASTM D790 .....	970
Flexural Modulus, (psi) ASTM D790.....	25,160
Tear Strength, (pli) ASTM D624.....	600
Shrinkage, (in/in) linear ASTM D2566.....	0.002

### HANDLING PROPERTIES:

Mix Ratio (by weight):

Part A .....	100 parts by weight
Part B .....	30 parts by weight

Mix Ratio (by volume):

Part A .....	100 part by volume
Part B .....	29 parts by volume

**HANDLING PROPERTIES (continued):**

Specific Gravity:	
Part A .....	1.12
Part B .....	1.17
Viscosity, (cps) @ 77°F (25°C) Brookfield:	
Part A .....	4,750
Part B .....	250
Mixed .....	4,000
Color:	
Part A .....	Pale yellow
Part B .....	Amber
Work Time, (100g mass) @ 77°F (25°C).....	15 minutes
Gel Time .....	20 minutes
Demold Time, 77°F (25°C).....	4 - 6 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 shelf of 6 months from date of shipment when properly stored at room temperature. Purge opened containers with dry nitrogen before re-sealing.

**PACKAGING:**

1 Gallon kits.....	8 lbs. A, 2.4 lbs. B
5 Gallon kits.....	40 lbs. A, 12 lbs. B
55 Gallon drum kits .....	400 lbs. A, 120 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 laundry 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."