



TC-8772 A/B

HIGH PERFORMANCE 70 SHORE D POLYURETHANE ELASTOMER

PRODUCT DESCRIPTION:

TC-8772 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-8772 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-8772 A/B are particularly suitable for mining and mineral process industries.

PRODUCT HIGHLIGHTS:

- ✓ Exceptional abrasion and impact resistance
- ✓ Contains no MDI, MDA, OR MOCA
- ✓ Easy to handle

PHYSICAL PROPERTIES:

Hardness, Shore D ASTM D2240	70 ± 5
Density, (g/cc) ASTM D792	1.14
Cubic Inches per Pound	24.4
Color/Appearance.....	Translucent/Amber
Tensile Strength, (psi) ASTM D638.....	5,025
Tensile Modulus, (psi) ASTM D638	5.4 x 10 ⁴
Elongation, (%) ASTM D638.....	480
Tear Strength, (pli) ASTM D624.....	760
Flexural Strength, (psi) ASTM D790	2,070
Flexural Modulus, (psi) ASTM D790.....	54,000
Shrinkage, (in/in) linear ASTM D2566.....	0.005
Izod Impact, (ft lb/in) notched ASTM D256	>8.8
Heat Deflection Temperature, (66 psi) ASTM D648.....	157°F (69°C)

HANDLING PROPERTIES:

Mix Ratio (by weight):

Part A	100 parts by weight
Part B	40 parts by weight

Mix Ratio (by volume):

Part A	100 parts by volume
Part B	38 parts by volume

Specific Gravity:

Part A	1.12
Part B	1.17

HANDLING PROPERTIES (continued):

Viscosity, (cps) @ 77° F (25° C) Brookfield:	
Part A	4,350
Part B	250
Mixed	2,425
Color:	
Part A	Pale yellow
Part B	Amber
Work Time, (100g mass) @ 77° F (25° C).....	8-10 minutes
Gel Time	12-15 minutes
Demold Time @ 77°F (25°C).....	2 to 3 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:

1 Gallon kits.....	8 lbs. A, 3.2 lbs. B
5 Gallon kits.....	40 lbs. A, 16 lbs. B
55 Gallon drum kits	400 lbs. A, 160 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 and 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 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."