



TC-8760 A/B

CASTABLE HIGH PERFORMANCE 60 SHORE D POLYURETHANE ELASTOMER

PRODUCT HIGHLIGHTS:

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

PRODUCT DESCRIPTION:

TC-8760 A/B is a two-component urethane casting compound that is specifically formulated for high abrasion and impact resistance. It is recommended for use in the casting of highly wear-resistant parts and linings. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain TDI, MDI, MDA, or MOCA. TC-8760 A/B is relatively insensitive to typical environmental moisture and will make good void-free parts. Because of this product's exceptional toughness and abrasion resistance, castings made with TC-8760 A/B are particularly suitable for mining and mineral process industries.

TYPICAL PRODUCT USES:

- ◆ Abrasion-resistant parts and lining
- ◆ Foundry patterns and core box liners
- ◆ Roller facings and casters
- ◆ Potting and encapsulation
- ◆ Cutting table tops
- ◆ Metal forming die facings
- ◆ Troughs, chutes and other equipment contacting any abrasive materials
- ◆ Machinery base pads and gears

PHYSICAL PROPERTIES:

Hardness, Shore D ASTM D-2240	60 ± 2
Specific Gravity, (g/cc) cured ASTM D-792	1.15
Cubic Inches Per Pound	24.0
Color/Appearance.....	Amber/Transparent
Tensile Strength, (psi) ASTM D-412.....	3,800
Tensile Modulus, (psi) ASTM D-412.....	36,000
Elongation, (%) ASTM D-412	400
Tear Strength, (pli) ASTM D-624.....	650
Shrinkage, (in./in.) linear ASTM D-2566.....	0.003
Flexural Strength, (psi) ASTM D-790	1,532
Flexural Modulus, (psi) ASTM D-790.....	40,200
Izod Impact, (ft.-lb./in.) ASTM D-256.....	3.8

HANDLING PROPERTIES:

Mix Ratio (by weight):

Part A 100 parts by weight
Part B 33 parts by weight

Mix Ratio (by volume):

Part A 100 parts by volume
Part B 33 parts by volume

Specific Gravity, (g/cc):

Part A 1.14
Part B 1.17

Viscosity, (cps) @ 77°F (25°C) Brookfield:

Part A 8,000
Part B 250
Mixed 4,250

Color:

Part A Clear Amber
Part B Dark Amber

Work Time (100-gram mass) @ 77°F (25°C) 15 Minutes

Demold Time, 77°F (25°C) 2 - 3 hours at ambient temperature; can be reduced to 1 hour
with moderately elevated material and/or mold temperatures

Cure Schedule 3 - 5 days at ambient temperatures or 16 hours @ 150° - 180°F (66° - 82°C) (See NOTE)

NOTE:

Post-curing TC-8760 A/B within this temperature range, (see Cure Schedule above) immediately after demolding will provide the optimum physical properties (Tensile, Tear Strength and overall toughness).

STORAGE:

Store in a dry place at room temperature. Unopened containers have a shelf life of 6 months, from date of shipment, when properly stored under normal temperature conditions, 77° ± 15°F (25° ± 10°C). Opened containers should be purged with dry nitrogen or equivalent product before resealing the lids.

PACKAGING:

1 Gallon kits 8 lbs. A, 2.7 lbs. B
5 Gallon kits 40 lbs. A, 13.2 lbs. B
55 Gallon drum kits 400 lbs. A, 132 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. 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.