TC-8750 A/B

CASTABLE HIGH PERFORMANCE 55 SHORE D POLYURETHANE ELASTOMER

PRODUCT HIGHLIGHTS:

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

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 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-8750 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-8750 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	55 ± 2
Specific Gravity, (g/cc) cured ASTM D-792	1.13
Cubic Inches Per Pound	23.5
Color/Appearance	Amber/Transparent
Tensile Strength, (psi) ASTM D-412	3,000
Elongation, (%) ASTM D-412	450
Flexural Strength, (psi) ASTM D-790	970
Flexural Modulus, (psi) ASTM D-790	25,160
Tear Strength, (pli) ASTM D-624	600
Shrinkage, (in./in.) linear ASTM D-2566	0.002

HANDLING PROPERTIES:

Mix Ratio (by weight):
- Part A ..... 100 parts by weight
- Part B ..... 30 parts by weight

Specific Gravity (g/cc):
- Part A 1.12
- Part B 1.17

Viscosity, (cps) @ 77°F (25°C) Brookfield:
- Part A ..... 7,500 ± 200
- Part B 250
- Mixed ..... 4,000 ± 500

Color:
- Part A ..... Clear amber
- Part B ..... Dark amber

Work Time, (100g mass) @ 77°F (25°C) ..... 15 minutes
Gel Time ..... 20 minutes
Demold Time, 77°F (25°C) ..... 4 - 6 hours at ambient temperature; can be reduced to 2 - 3 hours 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).
NOTE: Post-curing the TC-8750 A/B within this temperature range immediately after demolding, will provide the optimum in 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, 2.4 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.

For more information call BJB Enterprises, Inc. (714) 734-8450 Fax (714) 734-8929