



MC-145 A/B

HIGH PERFORMANCE 45 SHORE D POLYURETHANE ELASTOMER

PRODUCT HIGHLIGHTS:

- Designed for meter mix dispensing
- Convenient 1:1 by volume ratio
- High tear, abrasion and impact resistance
- Contains no TDI, MDI, MDA, or MOCA
- Room temperature mixing and curing
- Short demold times allows for production parts

PRODUCT DESCRIPTION:

MC-145 A/B is a two-component urethane casting compound that can be used with meter-mix-dispense equipment. This product is a safe, easy-to-handle, room temperature mixing and curing system that does not contain TDI, MDI, MDA, or MOCA. MC-145 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 MC-145 A/B are particularly suitable for the mineral process and metal forming industries.

TYPICAL PRODUCT USES:

- ◆ Abrasion-resistant parts and linings
- ◆ Bumpers and rub rails
- ◆ Paper feed rollers
- ◆ Potting and encapsulation applications
- ◆ Semi-flexible molds
- ◆ Metal forming die facings
- ◆ Holding fixtures
- ◆ Machinery base pads
- ◆ Applications requiring high abrasion and impact resistance casting

PHYSICAL PROPERTIES:

Hardness, Shore D ASTM D-2240.....	45 ± 2
Specific Gravity, (g/cc) cured ASTM D-792	1.08
Cubic Inches Per Pound	25.5
Color/Appearance.....	Buff/Translucent
Tensile Strength, (psi) ASTM D-412.....	3,000
Tensile Modulus, (psi) ASTM D-412.....	12,000
Elongation, (%) ASTM D-412.....	290
Tear Strength, (pli) ASTM D-624	270
Shrinkage, (in./in.) Linear ASTM D-2566	0.006

HANDLING PROPERTIES:

Mix Ratio (by weight):
 Part A 100 parts by weight
 Part B 95 parts by weight

Mix Ratio (by volume):
 Part A 100 parts by volume
 Part B 100 parts by volume

Specific Gravity, (g/cc):
 Part A 1.10
 Part B 1.07

Viscosity, (cps) @ 77°F (25°C) Brookfield:
 Part A 3,800
 Part B 1,650
 Mixed 2,800

Color:
 Part A Light amber, clear
 Part B Tan, opaque

Work Time, (100-gram mass) @ 77°F (25°C) 4 minutes
 Gel Time 5 minutes
 Demold Time @ 77°F (25°C) 30 - 60 minutes
 Cure Schedule Full cure in 3 - 5 days at room temperature, or post cure for
 16 hours @ 150° - 180°F (66° - 82°C) to enhance physical properties.

PIGMENTING:

Add and mix 1 - 1.5 ounces of BJB pigment to 8 lbs. of MC-145 “B” (approximately 1%) prior to mixing with MC-145 “A”.

STORAGE:

Store in a dry place at room temperature. Unopened containers of MC-145 A/B will 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 are best kept by applying a dry nitrogen blanket before closing lids.

PACKAGING:

1 Gallon kits 8 lbs. A, 7.6 lbs. B
 5 Gallon kits 40 lbs. A, 38 lbs. B
 55-Gallon drum kits 400 lbs. A, 380 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.