



TC-5045 A/B
45 SHORE A
ROOM TEMPERATURE CURING SILICONE

PRODUCT DESCRIPTION:

TC-5045 A/B is a room temperature, addition/platinum curing silicone rubber designed for mold making, encapsulation applications, pressure pads, gaskets, and various types of parts. It is an excellent mold material for casting rigid and flexible urethane systems. It may also be used as a mold making material for casting low melting metals in continuous operations to 650°F (344°C) and sporadic applications of 850°F (454°C). TC-5045 A/B has proven to be less inhibited in its cure than standard platinum based silicones. It has a very favorable CTE for heat expandable mandrels used in composite tooling.

PHYSICAL PROPERTIES:

Table with 2 columns: Property and Value. Properties include Hardness, Density, Cubic Inches per Pound, Color/Appearance, Tensile Strength, Elongation, Tear Strength, Coefficient of Thermal Expansion, Shrinkage, Dielectric Constant, Dissipation Factor, etc.

HANDLING PROPERTIES:

Table with 2 columns: Property and Value. Properties include Mix Ratio (by weight), Specific Gravity @ 77°F (25°C), Viscosity, (cps) @ 77°F (25°C) Brookfield, Work Time (100 g mass) @ 77°F (25°C), Gel Time, Demold Time @ 77°F (25°C), Demold Time w/ Heat Cure @ 150°F (66°C).

**INHIBITION:**

Although TC-5045 A/B has proven to be less inhibited in curing against most substrates some materials may cause inhibition or neutralization of the curing agent. Inhibition may easily be determined by brushing a small quantity of TC-5045 A/B over a localized area of the surface to be reproduced. If the TC-5045 A/B is gummy or uncured after the curing time, then you know the mold surface is acting as an inhibitor. Molds made from wood, plaster, metal or plastic should not cause inhibition if they are clean. To insure against possible problems, it is advisable to spray a RF barrier film (BJB product RF-5124) over any questionable surfaces. This is the best way of treating clays and surfaces that cause inhibition.

**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:**

Quart Kits .....	2 lbs. A, 3.2 oz. B
Gallon Kits .....	8 lbs. A, 13 oz. B
5 Gallon Kits .....	40 lbs. A, 4 lbs. B
Drum Kits .....	450 lbs. A, 45 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. 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. Contact a physician immediately.

**Refer to the Material Safety Data Sheet before using this product.**