



WC-55AM A/B
WATER CLEAR SHORE 55 A
POLYURETHANE ELASTOMER



WC-55AM A/B is a two-part, clear, colorless aliphatic-based polyurethane elastomer. It is recommended for use whenever a flexible, permanently transparent elastomer is required. Its ability to accept pigments ranging from light to dark colors, and color stability when exposed to moderate UV light, make it a great system for a variety of real-world applications. This system responds very well to heated molds for quicker demolds and faster mold turnover. This system does not contain Mercury, Phthalates, or TDI. WC-55AM A/B is compatible with tin and platinum silicone mold materials.

- RoHS/REACH Compliant
• Tin/Platinum Silicone Safe
• Mercury and Phthalate Free
• Clear Potting and Flexible Parts
• Low Viscosity
• Easy to Pigment

Table with 3 columns: PHYSICAL PROPERTIES, TEST METHOD, RESULTS. Rows include Hardness, Density, Cubic Inches per Pound, Color/Appearance, Tensile Strength, Tensile Modulus, Elongation, Tear Strength, Shrinkage, Dielectric Constant, and Dissipation Factor.

*Note: Reported physical properties are based on test specimens cured 2-3 hours at room temperature then 16 hours at 160°F (71°C).
†Shrink test specimens are cured for 24 hours at room temperature and then 16 hours at 160°F (71°C).

Table with 3 columns: HANDLING PROPERTIES, Part A, Part B. Rows include Mix Ratio by weight, Mix Ratio by volume, Specific Gravity, Color, Viscosity, Mixed Viscosity, Work Time, Gel Time, and Demold Time at different temperatures.

Properties above are typical and not for specifications.

CURE SCHEDULE/HEAT CURING:

WC-55AM A/B is designed to be as user friendly as possible but can be more moisture sensitive compared to other BJB systems. Avoid paper products and wood stir sticks. If casting at room temperature, vacuum degassing and pressure casting is highly recommended to eliminate bubbles. When not casting under pressure, pre-heating the molds to above 100°F (38°C) can help eliminate potential moisture bubbles. WC-55AM responds very well to heat curing. Demold times can be dramatically reduced by adding heat. Pre-heating the mold and curing at 120°F (49°C) allows parts to be demolded as quick as 3-4 hours while retaining the benefit of a 10-12 minute working time for proper mixing and vacuum degassing.

STORAGE AND HANDLING:

Store at ambient temperatures, 65-80°F (18-27°C). Unopened containers will have a shelf life of 6 months from date of shipment when properly stored at recommended temperatures. Purge opened containers with dry nitrogen before re-sealing.

PACKAGING	Part A	Part B	Cubic Inches per Kit
Quart Kits	1 lbs.	2 lbs.	79
Gallon Kits	4 lbs.	8 lbs.	317
5-Gallon Kits	20 lbs.	40 lbs.	1,584
55-Gallon Drum Kits	225 lbs.	450 lbs.	17,820

SAFETY PRECAUTIONS:

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. Use in well-ventilated areas. Avoid breathing vapors. If exposures cannot be kept at a minimum, a respirator may be necessary in addition to ventilation. The use of a positive pressure air supplied respirator is mandatory when airborne isocyanate concentrations are “not known” or exceeds OSHA TWA of 0.005 ppm. Air purifying, organic cartridge type respirators are not generally recommended to use when handling this material without implementation of an end of life service program. Observe OSHA regulations for respirator use (29 CFR 1910.134). Employers are responsible for selecting the correct respirator for each situation.

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.

NOTE:

Refer to the Safety Data Sheet before using this product. For processing tips and guides, please visit: learn.bjbmaterias.com to discover additional information.

⚠️WARNING: This product can expose you to chemicals including Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

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."