

# WC-575 A/B

## WATER CLEAR SHORE 70 A

### POLYURETHANE ELASTOMER

**PRODUCT DESCRIPTION:**

WC-575 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. It can be easily tinted or pigmented to clean bright colors.

WC-575 A/B does not contain MOCA, TDI, or MDA. In addition to being an excellent castable product, it also functions well as an adhesive for bonding various substrates.

**PHYSICAL PROPERTIES:**

|  |                 |
|--|-----------------|
| Hardness, Shore A ASTM D2240 .....         | 70 ± 5          |
| Density, (g/cc) ASTM D792 .....            | 1.06            |
| Cubic Inches per Pound.....                | 26.2            |
| Color/Appearance.....                      | Colorless/Clear |
| Tensile Strength, (psi) ASTM D412.....     | 1,370           |
| Elongation, (%) ASTM D412 .....            | 300             |
| Tear Strength, (pli) ASTM D624 Die C ..... | 66              |
| Shrinkage, (in/in) linear ASTM D2566 ..... | 0.006           |

**HANDLING PROPERTIES:**

|  |                     |
|--|---------------------|
| Mix Ratio (by weight):                     |                     |
| Part A .....                               | 100 parts by weight |
| Part B .....                               | 90 parts by weight  |
| Mix Ratio (by volume):                     |                     |
| Part A .....                               | 100 parts by volume |
| Part B .....                               | 94 parts by volume  |
| Specific Gravity @ 77°F (25°C):            |                     |
| Part A .....                               | 1.07                |
| Part B .....                               | 1.03                |
| Viscosity, (cps) @ 77°F (25°C) Brookfield: |                     |
| Part A .....                               | 4,725               |
| Part B .....                               | 300                 |
| Mixed .....                                | 1,050               |
| Color:                                     |                     |
| Part A .....                               | Colorless           |
| Part B .....                               | Colorless           |

**HANDLING PROPERTIES (continued):**

|   |   |
|---|---|
| Work Time, (100-gram mass) @ 77°F (25°C)..... | 15 minutes                                |
| Gel Time.....                                 | 25 minutes                                |
| Demold Time @ 77°F (25°C).....                | 6 hours, ¼” thick; 4 hours in larger mass |

**CURE SCHEDULE/HEAT CURING:**

Most of the physical properties can be achieved in 5-7 days at ambient temperature, 77°F (25°C). In order to achieve maximum physical properties, a post cure with heat is required. BJB recommends 24 hours at ambient temperature, 77°F (25°C), followed by 16 hours at 130-160°F (54-71°C).

If you are using heat to accelerate the demold time, allow the part to cool down to ambient temperature before demolding.

**NOTE:**

**The cure will be inhibited if cast against a tin catalyzed silicone RTV.**

**STORAGE AND HANDLING:**

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:**

|                        |                        |
|------------------------|------------------------|
| Gallon Kits.....       | 8 lbs. A, 7.2 lbs. B   |
| 5 Gallon Kits.....     | 40 lbs. A, 36 lbs. B   |
| 55 Gall Drum Kits..... | 400 lbs. A, 360 lbs. B |

**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.

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

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."