

# WC-595 A/B

## WATER CLEAR ALIPHATIC POLYURETHANE ELASTOMER

### PRODUCT HIGHLIGHTS:

WC-595 A/B is a two-part, clear, 90 Shore A polyurethane elastomer. It is recommended for use wherever a tough, flexible, permanently transparent elastomer is required. It can be easily tinted and will retain its color provided color stable colorants are used.

WC-595 A/B does not contain MOCA, MDA or TDI. In addition to being an excellent castable product, it is an excellent solvent-free adhesive for bonding various plastic substrates.

### PHYSICAL PROPERTIES:

Hardness, Shore A ASTM D-2240.....	90 ± 5
Density, (g/cc) ASTM D-792.....	1.03
Cubic Inches Per Pound .....	26.4
Tensile Strength, (psi) ASTM D-412.....	4,000
Elongation, (%) ASTM D-412.....	180
Tear Strength, (pli) ASTM D-624 .....	375
Shrinkage, (in./in.) linear ASTM D-2566.....	0.005

### 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 .....	93 parts by volume

Specific Gravity:

Part A .....	1.07
Part B .....	1.03

Viscosity, (cps) @ 77°F (25°C) Brookfield:

Part A .....	3,000
Part B .....	350
Mixed .....	900

Color:

Part A .....	Clear/Colorless
Part B .....	Clear/Colorless

Work Time, (100-gram mass) @ 77°F (25°C).....15 minutes

Gel Time .....20 minutes

### **HANDLING PROPERTIES (cont'd):**

Demold Time @ 77°F (25°C)..... 6 hours, ¼” thick; 4 hours in larger mass  
Cure Schedule.....3 - 5 days at room temperature  
May be post cured at 140° - 160°F (60° - 71°C) for 6 - 8 hours to accelerate cure.

### **NOTE:**

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

### **STORAGE AND HANDLING:**

All materials should be kept in tightly closed containers out of contact with moist air. Stored under these conditions at temperatures of 60° - 80°F (16° - 27°C), the shelf life is 6 months from date of shipment. Part B may turn hazy or partially freeze below 65°F (18°C) storage. In these cases, warming to 80° - 90°F (27° - 32°C) will return product to a clear state.

### **PACKAGING:**

Gallon Kits..... 8 lbs. A, 7.2 lbs. B  
5 Gallon Kits..... 40 lbs. A, 36 lbs. B  
55 Gallon 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’S 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.**