



WC-590 F.R. A/B

CLEAR, ALIPHATIC FIRE RETARDANT POLYURETHANE ELASTOMER

PRODUCT HIGHLIGHTS:

WC-590 FR A/B is a two-part, clear, fire retardant 85 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-590 FR A/B does not contain MOCA, MDA or TDI. In addition to being an excellent castable product, it may also be used as an adhesive for bonding various plastic substrates. WC-590 FR A/B will meet the FAR 25.853 flammability test.

PHYSICAL PROPERTIES:

Hardness, Shore A ASTM D-2240	85
Specific Gravity, (g/cc) cured ASTM D-792	1.06
Tensile Strength, (psi) ASTM D-412.....	1,920
Elongation, (%) ASTM D-412.....	175
Tear Strength, (pli) ASTM D-624	210
Shrinkage, (in./in.) linear ASTM D-2566.....	0.003

HANDLING PROPERTIES:

Mix Ratio (by weight):

Part A 90 parts by weight

Part B 100 parts by weight

Mix Ratio (by volume):

Part A 95 parts by volume

Part B 100 parts by volume

Specific Gravity, (g/cc):

Part A 1.04

Part B 1.08

Mixed Viscosity, (cps) @ 77°F (25°C) Brookfield..... 1,060

Color:

Part A Clear, medium viscous liquid

Part B Colorless liquid

Work Time, (100-gram mass) @ 77°F (25°C).....20 minutes

Gel Time25 minutes

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:

WC-590 FR A/B has excellent weatherability and will remain clear and colorfast in exterior exposure. **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. Warming to 80° - 90°F (27° - 32°C) will return product to a clear state.

PACKAGING:

5 Gallon Kits..... 36 lbs. A, 40 lbs. B
55 Gallon Drum Kits 360 lbs. A, 400 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. 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.