



**ALIPHATIC & WATER CLEAR URETHANES**

*"Dedicated to QUALITY, SERVICE, SAFETY, and INNOVATION"*

**WC-753 A/B  
TRANSLUCENT 55 SHORE D  
POLYURETHANE ADHESIVE/COATING SYSTEM**

**PRODUCT DESCRIPTION:**

WC-753 A/B is a two part, translucent 55 Shore D polyurethane adhesive/coating system designed to repair cracks and scratches. WC-753 A/B is also used to bond dissimilar substrates and has excellent adhesion to plastic surfaces. It is particularly suited for bonding or clear coating a wide variety of porous, synthetic, or natural substrates, such as rigid or flexible foamed plastics, fabrics, wood or modeling board. WC-753 A/B will bond construction materials such as polystyrene insulation board, rigid polyurethane foam, ABS, PVC and Neoprene rubber.

**PRODUCT HIGHLIGHTS:**

- Tough and impact resistant
- 8 - 9 minute working time
- 100% solids, no solvent or exudates
- Good weatherability
- Convenient 1 to 1 mix ratio by weight
- Ideal hardness to form tough, flexible bonds to plastic substrates

**PHYSICAL PROPERTIES:**

|  |                         |
|--|-------------------------|
| Hardness, Shore D ASTM D2240-04e1 .....    | 55 ± 5                  |
| Density, (g/cc) ASTM D792-00 .....         | 1.12                    |
| Color/Appearance.....                      | Pale yellow/Translucent |
| Tensile Strength, (psi) ASTM D638-03 ..... | 2,200                   |
| Elongation, (%) ASTM D638-03.....          | 370                     |
| Flexural Strength, (psi) ASTM D790-03..... | 1,430                   |
| Flexural Modulus, (psi) ASTM D790-03 ..... | 4.7x10 <sup>4</sup>     |
| T-peel Strength, (pli) ASTM D1876.....     | 40                      |

**HANDLING PROPERTIES:**

Mix Ratio (by weight):

|              |                     |
|--------------|---------------------|
| Part A ..... | 100 parts by weight |
| Part B ..... | 100 parts by weight |

Mix Ratio (by volume):

|              |                     |
|--------------|---------------------|
| Part A ..... | 93 parts by volume  |
| Part B ..... | 100 parts by volume |

Specific Gravity:

|              |      |
|--------------|------|
| Part A ..... | 1.12 |
| Part B ..... | 1.04 |

**HANDLING PROPERTIES (continued):**

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

|              |       |
|--------------|-------|
| Part A ..... | 4,150 |
| Part B ..... | 800   |
| Mixed .....  | 1,850 |

Color:

|              |             |
|--------------|-------------|
| Part A ..... | Colorless   |
| Part B ..... | Pale yellow |

|  |  |
|--|--|
| Work Time, (100-gram mass) @ 77°F (25°C) ..... | 8 - 9 minutes                                    |
| Gel time .....                                 | 9 - 10 minutes                                   |
| Tack Free Time @ 77°F (25°C) .....             | 4 - 6 hours                                      |
| Cure Schedule .....                            | 2 - 3 days @ R.T. /See <u>HEAT CURING</u> below. |

**HEAT CURING:**

Generally, for most coating or adhesive applications, ambient temperature curing is adequate. However, optimum physical properties are obtained by moderate post-curing WC-753 for 2 - 4 hours at 120 - 140° F (49° - 60°C), after tack free and dry to touch at ambient temperature cure.

**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, 2 lbs. B   |
| Gallon Kits .....   | 8 lbs. A, 8 lbs. B   |
| 5 Gallon Kits ..... | 40 lbs. A, 40 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 conscious, give plenty of water to drink. Induce vomiting only as directed by medical personnel. Contact a physician immediately.

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