URE-BOND™ II

URETHANE ADHESIVE

PRODUCT OVERVIEW

URE-BOND***tm*** II is a premium performance urethane adhesive compound that offers a strong flexible bond between many different surfaces. Industrial applications for this adhesive are endless because it is a superior bonding agent for adhering polyurethane rubber and other polymer products to many types of substrates
(such as plaster, wood, cement, stone) and non-porous materials (such as glass, hard plastics and a variety of metals).

URE-BOND***tm*** II has also been used to repair torn polyurethane molds on a limited basis (with proper surface preparation). Once mixed and applied, URE-BOND II takes about 12 minutes to cure and yields a strong, flexible bond.

TECHNICAL OVERVIEW

Key Values: ***~Mixing Ratio****:* One Part A to One Part B By Volume ***~ Pot Life:*** *5* Minutes
~Cure Time: 20 Minutes ***~Color of Mixed Material:*** Amber
~Shore Hardness: 85A ***~ Mixed Viscosity:*** 5,400 cps

Specific Gravity: 1.1 g/cc **Specific Volume:** 25 cu. in/lb. **Ultimate Tensile:** 800 psi
Elongation at break: 121% **Modulus:** 700 psi **Die C Tear:** 175 psi

Surface preparation - It is essential that the surface of both substrates to be bonded be absolutely clean and dry. Porous surfaces should be sanded until clean and any excess dust removed thoroughly.

Non-porous surfaces should be degreased, dried and abraded by sanding, sandblasting or chemical etching - the etching being required for certain surfaces. Solvent wash the surface and let the solvent fully dry before applying adhesive.

Application: Materials should be stored and used in a warm environment (72° F / 23° C). Liquid urethanes are **moisture sensitive** and will absorb atmospheric moisture. **IMPORTANT**: Shelf life of product is drastically reduced after opening. Remaining product should be used as soon as possible. Immediately replacing the lids on both containers after dispensing product will prolong the shelf life of the unused product. **XTEND-IT Dry Gas Blanket** (available from TCS, Inc) will significantly prolong the shelf life of unused Part A liquid urethane.

Pre-mix Part B before dispensing and mixing with Part A. After dispensing equal amounts of Parts A and B into mixing container, **mix thoroughly for 3 minutes** making sure that you **scrape the sides and bottom of the mixing container several times**. Pour or brush on to prepared surface. Position and affix other surface to substrate and hold fast or clamp together for 20 minutes.

Can be handled after 20 minutes. Full cure is reached in 24 hours.

Safety First

The Material Safety Data Sheet (MSDS) for this or any other product should be read prior to use and is available at www.SCULPT.com. All Smooth-On products are safe to use if directions are read and followed carefully.

Be careful. Part A contains methylene diisocyanate (MDI). Vapors, which can be significant if material is heated or sprayed, cause lung damage and sensitization. Use only with adequate ventilation. Contact with skin and eyes may cause severe irritation. Flush eyes with water for 15 minutes and seek immediate medical attention. Remove from skin with waterless hand cleaner followed by soap and water Refer to MSDS. Part B is irritating to the eyes and skin. It contaminated, flush eyes with water for 15 minutes and seek immediate medical attention. Use only with adequate ventilation. **Important:** The information contained in this bulletin is considered accurate. However, no warranty is expressed or implied regarding the accuracy of the data, the results to be obtained from the use thereof, or that any such use will not infringe upon a patent. User shall determine the suitability of the product for the intended application and assume all risk and liability whatsoever in connection therewith.

Call Us Anytime With Questions About <u>Your</u> Application.

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