

URE-BOND™ II

Flexible Urethane Adhesive



www.smooth-on.com

PRODUCT OVERVIEW

URE-BOND™ II is a premium performance urethane adhesive compound that offers a strong flexible bond between many different surfaces. URE-BOND™ II is ideal 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™ II has also been used to repair torn polyurethane molds on a limited basis (with proper surface preparation). Working time is 5 minutes at room temperature (73° F / 23° C). Once mixed and applied, URE-BOND™ II takes about 60 minutes to cure and yields a strong, flexible bond.

TECHNICAL OVERVIEW

Mix Ratio: 1A:1B by volume, 100A:92B by weight

Mixed Viscosity, cps: 5,400 (ASTM D-2393)

Specific Gravity, g/cc: 1.1 (ASTM D-1475)

Pot Life: 5 minutes (73°F/23°C) (ASTM D-2471)

Handling time: 60 minutes (73°F/23°C)

Cure time: 24 hours (73°F/23°C)

Color: Amber

Shore A Hardness: 85 (ASTM D-2240)

Tensile Strength, psi: 3,400 (ASTM D-412)

Elongation @ Break: 121% (ASTM D-412)

Specific Volume: 25 cu. in./lb.

Modulus, psi: 700 (ASTM D-412)

Die C Tear Strength, psi: 175 (ASTM D-624)

Shrinkage (in./in.): 0.0038 (ASTM D-2566)

* All values measured after 7 days at 73°F/23°C

PROCESSING RECOMMENDATIONS

PREPARATION...

Safety - Use in a properly ventilated area ("room size" ventilation). Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk.

Store and use material at room temperature (73°F/23°C). This product has a limited shelf life and should be used as soon as possible.

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.

MEASURING & MIXING...

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.

APPLYING, CURING & PERFORMANCE...

Pour or brush on to prepared surface. Position and affix other surface to substrate and hold fast or clamp together for 60 minutes. Cure time can be reduced by applying mild heat.

IMPORTANT: Shelf life of product is reduced after opening. Remaining product should be used as soon as possible. Immediately replacing the lids on both containers after dispensing product will help prolong the shelf life of the unused product. XTEND-IT® Dry Gas Blanket (available from Smooth-On) will significantly prolong the shelf life of unused liquid urethane products.

Safety First!

The Material Safety Data Sheet (MSDS) for this or any Smooth-On product should be read prior to use and is available upon request from Smooth-On. All Smooth-On products are safe to use if directions are read and followed carefully. **Keep Out of Reach of Children**

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. If 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 Your Application.

Toll-free: (800) 381-1733 Fax: (610) 252-6200

www.smooth-on.com is loaded with information about mold making, casting and more.

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