



URE-BOND™ 3

URETHANE ADHESIVE

PRODUCT OVERVIEW

URE-BOND™ 3 is an industrial grade urethane adhesive compound that offers a strong, flexible bond between urethane elastomers and a variety of surfaces. Originally developed to repair torn urethane rubber molds, URE-BOND™ 3 will also adhere polyurethane rubber and other polymer products to porous surfaces (such as plaster, wood, cement, stone) and non-porous surfaces (such as glass, hard plastics and a variety of metals).

Once mixed and applied, URE-BOND 3 takes about 3 hours to cure and yields a strong, flexible bond that is impact resistant.

TECHNICAL OVERVIEW

Key Values:	~ Mixing Ratio: 33A:100B by Weight (1A:4B by volume)	~ Pot Life: 6 Minutes
	~ Cure Time: 3 hours	~ Color: Amber
	~ Shore Hardness: 85A	~ Mixed Viscosity: 5,000 cps
Specific Gravity: 1.1 g/cc	Specific Volume: 25 cu. in/lb.	Ultimate Tensile: 893 psi
Elongation at break: 125%	Modulus: 770 psi	Die C Tear: 188 psi

Surface preparation - It is essential that all surfaces 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 evaporate before applying adhesive.

Application: Materials should be stored and used in a warm environment (72° F / 22° C). This product has a limited shelf life and should be used as soon as possible. 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 Smooth-On) will prolong the shelf life of unused Part A liquid urethane.

Pre-mix Part B before dispensing and mixing with Part A. After dispensing proper 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 onto prepared surface. Position and affix other surface to substrate and hold fast or clamp together for 20 minutes.

Because no two applications are quite the same, a small test application to determine suitability for your project is recommended if performance of this material is in question.

Can be handled after 3 hours. Full cure is reached in 24 hours.

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.

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. 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.

Smooth-On offers a complete line of Liquid Rubber, Liquid Plastic and Release Agent products for hundreds of industrial and art related applications. Chances are there is a distributor in your area to offer local support.

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