



# UR 90

Renew UR 90 is a premium-performance urethane rubber suitable for making custom Orthotics. Renew UR 90 will cure at room temperature with negligible shrinkage. Cured rubber is exceptionally strong, durable and will exhibit excellent wear resistance.

Material is available in Bulk containers. Mix ratio is 2A:1B by weight or volume. Materials should be stored and used at room temperature (72° F / 23° C). This product has a limited shelf life and should be used as soon as possible. Wear safety glasses, long sleeves and rubber gloves to minimize contamination risk.

**Some materials must be sealed.** To prevent adhesion between the rubber and other surfaces, surfaces made of porous materials (gypsum plasters, wood, etc.) must be sealed prior to applying a release agent. Paste wax is suitable for sealing porous surfaces.

**Applying a Release Agent.** A release agent is necessary to facilitate demolding when casting into or over most surfaces. Use a release agent made specifically for urethane rubber (Mann Ease Release 200).

Liquid urethane rubber is moisture sensitive and will absorb atmospheric moisture. Mixing tools and containers should be clean and made of metal, glass, or plastic. Materials should be stored and used in a warm environment (72° F / 23° C). **IMPORTANT:** Shelf life of product is drastically reduced after opening. Immediately replacing the lids on both containers after dispensing product will prolong the shelf life of the unused product.

**IMPORTANT: Pre-Mix the Part B before using.** After dispensing proper amounts of Part A and B into mixing container, mix thoroughly for at least 3 minutes making sure that you scrape the sides and bottom of the mixing container several times.

**Curing:** Allow the rubber to cure 16 hours / overnight at room temperature (72° F / 23° C) before demolding. Do not cure rubber where temperature is less than 65° F / 18° C.

Fully cured rubber is tough, durable and will perform if properly used and stored. The physical life of the rubber depends on how you use it.

## Technical Information

<b>Mix Ratio:</b>	2A : 1B parts by weight or volume	<b>Working Time:</b>	20 minutes
<b>Cure Time:</b>	16 hours (@ room temperature 72° F / 23° C)		
<b>Shore Hardness:</b>	90A	<b>Color:</b>	Clear Amber

*The Material Safety Data Sheet for this or any Renew Advanced Materials product should be read before using and is available upon request. All Renew products are safe to use with proper handling and precautions. Read and follow directions carefully.*

**Be Careful.** Renew UR 90 Part A is a TDI prepolymer. Vapors, which can be significant if prepolymer is heated or sprayed, may 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 soap and water. Pre-polymers contain trace amounts of TDI which, if ingested, must be considered a potential carcinogen. Refer to the MSDS for this product. Avoid skin contact by wearing long sleeve garments and latex gloves. If skin contact is made, remove immediately with soap and water. If eye contact is made, flush eyes with water for 15 minutes and seek immediate medical attention.

**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 a patent. User shall determine the suitability of the product for its intended applications and assumes all risk and liability whatsoever in connection therewith.

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