



Silicone 20

Renew Silicone 20 is a high-performance silicone rubber suitable for making custom prosthetic appliances such as silicone partial feet and silicone socket liners. Renew Silicone 20 will cure at room temperature with no shrinkage. Cured rubber will exhibit high tear strength and good wear resistance.

Material is available in either Cartridges (400 ml) or Bulk containers. Mix ratio is 100A:100B by weight or volume and vacuum degassing mixed material (29 hg mercury) is recommended prior to pouring. If cartridge dispensing, vacuum-degassing not recommended. 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.

If dispensing from bulk containers, you must measure the amounts of Part A and Part B accurately (by weight or volume). Before you begin, pre-mix Part B (base) thoroughly. After dispensing required amounts of Part 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. After mixing Parts A and B, vacuum degassing is recommended to eliminate any entrapped air. Vacuum material for 2-3 minutes (29 in. of mercury), making sure that you leave enough room in the container for product volume expansion.

If utilizing material cartridges, you must remove clear cap from cartridge end and twist / break-off end-cap. Screw on static mixing tube and place cartridge in dispensing gun. Do not squeeze trigger until you are ready to apply rubber. After squeezing trigger, Parts A and B will quickly be mixed through the static mixing tube and dispensed through the tip.

NOTE: If you stop dispensing, the product may cure in static mixing tube. If this happens, replace static mixing tube.

Storage of Un-used Material: Leave static mixing tube with cured material attached to cartridge. To use again simply replace static mixing tube.

Cure Inhibition: Silicone rubber may be inhibited by certain contaminants in or on the surfaces that they contact during the cure cycle (such as sulfur-based clays, polyesters, and certain woods) resulting in tackiness at the pattern interface or a total lack of cure throughout the silicone. If compatibility between the silicone and the surface is a concern, a small scale test is recommended. Apply a small amount of mixed silicone onto a non-critical area of the pattern. Inhibition has occurred if the rubber is gummy or uncured after the recommended cure time has passed.

Technical Information

Mix Ratio: 100A : 100B parts by weight or volume

Working Time: 25 minutes (@ room temperature 72° F / 23° C)

Cure Time: 4 Hours

Shore Hardness: 20A

Color: Translucent Clear

The Material Safety Data Sheet (MSDS) for this or any Renew Advanced Materials product should be read prior to use and is available upon request from Renew Advanced Materials. All Renew products are safe to use if directions are read and followed carefully.

Be careful. Use only with adequate ventilation. Contact with skin and eyes may cause irritation. If contaminated, flush eyes with soap and water for 15 minutes and seek medical attention. Remove from skin with waterless hand cleaner followed by soap and water.

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.

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