

SILISIL RTV MF-Ultra 60 Addition-Crosslinking

Description:

SILISIL RTV MF-Ultra 60 is a pourable, room temperature vulcanizing 2-component additive silicone (RTV 2) with a mixing ratio of 10:1.

The product offers the following advantages:

- High tear and tensile strength (Shore A \approx 58)
- Very good resistance to PU and polyester resins as well as PU foam
- High dimensional stability and aging resistance
- Precise reproduction of fine details
- Temperature resistant from -40 °C to +200 °C
- Long processing time (pot life \approx 60 minutes)

Main areas of application:

- Mold making for technical and decorative applications
- Serial and precision molding with epoxy, PU and polyester resins
- Molds for PU foam and polymer concrete

Surface preparation:

The surfaces to be reproduced must be clean, dry, and dust-free. Ideally, work at room temperature (approx. 23 °C) to ensure consistent processing and curing times. A release agent should be applied before pouring epoxy, polyester, and polyurethane resins into silicone molds. For aggressive resins, application is recommended with each pour.

Mixture and application:

1. **Preparation:** Shake or stir both components (base and catalyst) well before use to ensure a homogeneous consistency.
2. **Mixing:** Weigh the base and catalyst precisely **by weight in a 10:1 ratio** (maximum tolerance \pm 5%). Mix the components thoroughly, carefully incorporating the mixture into the container walls and bottom.
3. **Venting:** For optimal results, it is recommended to vent the mixture under vacuum after mixing to remove any trapped air bubbles.
4. **Processing:** Pour the mixed silicone slowly, ideally from a height of about 30 cm, into the prepared mold to minimize air bubbles.
5. **Curing:** Vulcanization takes place at room temperature (23 °C). Demolding is possible after approximately 24 hours. Note that lower temperatures significantly extend the pot life and curing time, while higher temperatures shorten them.

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Technical data:

Color (base)	Blue
Color (catalyst)	White
Paint (mixture)	Blue
Viscosity of the mixture	230,000 mPa·s (Brookfield)
Density of the mixture	1.24 g/cm ³ (at 23 °C)
Mixing ratio	10:1 by weight
Pot life (at 23°C)	approximately 60 minutes
Demolding time (at 23°C)	approximately 24 hours
Hardness (Shore A)	approx. 60 (according to ASTM D 2240)
Tear resistance	>5.0 N/mm ² (according to ASTM D 412)
Elongation at break	approximately 200 % (according to ASTM D 412)
Tear resistance	approx. 10 N/mm (according to ASTM D 624)
Temperature resistance	-40 °C to 200 °C

Packaging:

SILISIL RTV MF-Ultra 60 is available as standard in 5 kg + 0.5 kg, 25 kg + 0.25 kg and 200 kg + 20 kg containers. Other container sizes are available upon request.

Safety instructions:

Before handling the product, read the safety data sheet and ensure that you have all the information required for safe use.

Important note:

This document contains information provided to the best of our knowledge and belief, based on the current state of our understanding. This information is for guidance only and does not constitute any obligation on our part, particularly in the event of an infringement of third-party rights through the use of our products. This information should be supplemented by preliminary testing to ensure the product's suitability for its intended purpose.