

SILISIL RTV MF-Dura 40 Addition-Crosslinking

Description:

SILISIL RTV MF-Dura 40 is a pourable, room temperature vulcanizing 2-component additive silicone (RTV 2).

The product offers the following advantages:

- Low viscosity – ideal for complex shapes and fine undercuts
- Vulcanization at room temperature (23 °C)
- Excellent dimensional accuracy and precision in reproduction
- No shrinkage during curing
- High tensile strength and good mechanical properties
- Temperature resistance from -40 °C to +200 °C

Main areas of application:

- Mold making, especially suitable for models with strong undercuts (precise reproduction, high mechanical resistance, dimensional stability)
- Artificial stones (good compatibility with concrete mixes)
- Concrete formwork

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 1:1 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 4 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	5,500 mPa·s (Brookfield)
Density of the mixture	1.12 g/cm ³ (at 23 °C)
Mixing ratio	1:1 by weight
Pot life (at 23 °C)	approximately 50 minutes
Demolding time (at 23 °C)	approximately 4 hours
Complete curing (at 23 °C)	approximately 24 hours
Hardness (Shore A)	approx. 40 (according to ASTM D 2240)
Tear resistance	>4.0 N/mm ² (according to ASTM D 412)
Elongation at break	approx. 250 % (according to ASTM D 412)
Tear resistance	15 N/mm (according to ASTM D 624)
Temperature resistance	-40 °C to 200 °C

Packaging:

SILISIL RTV MF-Dura 40 is available as standard in 1 kg + 1 kg, 5 kg + 5 kg, 25 kg + 25 kg and 200 kg + 200 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.