

SILISIL RTV MF-Soft 12 Addition-Crosslinking

Description:

SILISIL RTV MF-Soft 12 is a pourable, room-temperature vulcanizing, two-component, addition-based silicone (RTV 2). The product offers the following advantages:

- Very good flow properties
- High mechanical resistance
- Excellent ink transfer properties for pad printing
- Very good elastic recovery behavior
- Temperature resistant from -40 °C to +200 °C

Main areas of application:

- Pad printing forms (good ink transfer)
- Mold making with high attention to detail

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.

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 90 minutes. 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	3,500 mPa·s (Brookfield)
Density of the mixture	1.10 g/cm ³ (at 23 °C)
Mixing ratio	1:1 by weight
Pot life (at 23 °C)	approximately 20 minutes
Demolding time (at 23 °C)	approximately 90 minutes
Complete curing (at 23 °C)	approximately 24 hours
Hardness (Shore A)	approx. 12 (according to ASTM D 2240)
Tensile strength	approx. 8.6 N/mm ² (according to ASTM D 412)
Elongation at break	approx. 550 % (according to ASTM D 412)
Tear resistance	approx. 8.6 N/mm (according to ASTM D 624)
Temperature resistance	-40 °C to 200 °C

Packaging:

SILISIL MF-Soft 12 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.