

# SILISIL RTV MF-Ultra 50P Addition-Crosslinking

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## Description:

**SILISIL RTV MF-Ultra 50P is a room temperature vulcanizing, addition-curing 2-component silicone in kneadable form (RTV 2).**

## The product offers the following advantages:

- Kneadable, non-runny consistency for precise hand impressions.
- Very short curing time (approx. 10 minutes at 23 °C)
- High tear resistance and dimensional stability
- Temperature resistant from -40 °C to +200 °C
- Very good chemical resistance to resin components
- Perfect detail reproduction for fine structures

## Main areas of application:

- Mold making and model making (for rapid reproductions)
- Technical or artistic corrections to the form
- Series and prototype molding in the industrial sector

## 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:** Knead or homogenize both components (base and catalyst) thoroughly before use.
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. **Processing:** Thoroughly knead the components together until a homogeneous color is achieved.
4. **Potting time:** Approx. 2-3 minutes at 23 °C.
5. **Curing:** Apply the material to the object to be reproduced or press it into the mold. Demolding is possible after approximately 10 minutes. Note that lower temperatures significantly extend the pot life and curing time, while higher temperatures shorten them.
6. **Post-processing:** After curing, the molded part can be removed with compressed air; do not use sharp tools.

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### Technical data:

<b>Consistency</b>	Kneadable (Putty)
<b>Color (base)</b>	Light blue
<b>Color (catalyst)</b>	White
<b>Paint (mixture)</b>	Light blue
<b>Density of the mixture</b>	1.32 g/cm <sup>3</sup> (at 23 °C)
<b>Mixing ratio</b>	1:1 by weight
<b>Pot life (at 23 °C)</b>	approximately 2-3 minutes
<b>Demolding time (at 23 °C)</b>	approximately 10 minutes
<b>Hardness (Shore A)</b>	approx. 50 (according to ASTM D 2240)
<b>Tear resistance</b>	approx. 6 N/mm (according to ASTM D 624)
<b>Temperature resistance</b>	-40 °C to 200 °C

### Packaging:

SILISIL RTV MF-Ultra 50P is available as standard in 1 kg + 1 kg and 20 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.