

Product Name

GREENSIL® SLOW RTV-2 Addition Cure Silicone Rubber

Product Description

GREENSIL® Slow is a two-part, addition cure (platinum) silicone rubber designed for mould making applications where extended working time is required. It offers low viscosity, good flow characteristics, and reliable dimensional stability, making it suitable for detailed reproductions and larger or more complex moulds.

The extended pot life allows for careful mixing, degassing, and pouring, particularly in situations where fast-setting systems may be limiting.

Typical Applications

- Mould making for resin, plaster, wax, and low temperature casting materials
- Detailed or multi-part moulds
- Brush-on mould systems (with thixotropic if required)
- Prototyping and reproduction work

Physical Properties

Typical Cured Properties

Colour:	Green
Specific Gravity	1.01
Hardness (Shore A):	20±2
Tensile Strength (Mpa)	3.0
Elongation at Break %:	490 ± 50
Tear Strength (kN/m):	31

Handling Properties

Typical Catalyzed Properties. Mixed @ 23°C and 50% RH.

Mix Ratio A:B (by volume)	100:100
Part A Viscosity (cps)	8000 ± 500
Part B Viscosity (cps)	6000 ± 500
Pot-life	20-30 minutes
Gel Time	30-45 minutes
Cure/De-mould Time (@ 23°C)	3-4 hours
Cure/De-mould Time (@ 60°C)	20-30 minutes

The pot life figure indicates the average time at 23°C / 50% RH required for the catalyzed mix to remain pourable. Tests have shown that a longer Pot Life has been achieved with varying temperature and humidity

Key Features

- Extended working time for larger or more detailed moulds
- Low viscosity for ease of mixing and pouring
- Good detail reproduction
- Minimal shrinkage over time
- Suitable for a wide range of casting materials
- Platinum cure system (no by-product release during cure)

Mixing & Processing

1. Measure equal parts Part A and Part B by volume in individual measuring cups.
2. Combine into a single vessel and mix thoroughly, ensuring material from the sides and base of the container is fully incorporated.
3. For best results, transfer to a second container and mix again to ensure a homogenous blend. The extended pot life of GREENSIL® Slow allows for this process.
4. If possible, degas under vacuum to minimise trapped air.
5. Pour in a thin stream into the lowest point of the mould to reduce air entrapment. Holding the mixing vessel at height (approximately 20 cm or more) will assist in creating a long, thin stream and further reduce air bubbles.
6. Working and cure times will vary depending on temperature, humidity, and the mass of material.

Release Agents

GREENSIL® Slow generally exhibits low adhesion to many substrates; however, the use of a suitable release agent is recommended to assist demoulding and reduce the risk of surface interaction, particularly on porous or untreated surfaces.

Release agents should be applied in accordance with manufacturer recommendations, ensuring consistent and even coverage. Avoid the use of release agents when casting silicone into silicone, as this may interfere with interlayer adhesion.

Thixotropic & Diluent

GREENSIL® Slow may be modified with compatible silicone additives to adjust viscosity. Sil-Thix can be added at up to 5% by weight to produce a brushable consistency. Our Silicone Diluent may be used at up to 30% by weight to reduce viscosity, though it is recommended to begin at lower additions (approximately 5%) and increase as required. The addition of diluent may affect cured properties, including a reduction in Shore hardness and an increase in surface tack.

Compatibility & Inhibition

As with all addition cure silicones, GREENSIL® Slow may be inhibited by certain materials, including sulphur-based clays, tin-cure silicones, and substances containing amines, such as some epoxies and resins. Where compatibility is uncertain, a small-scale test is recommended prior to use.

Regulatory Compliance

For applications involving contact with food, users should conduct their own testing to determine suitability for the intended application. Once fully cured, the silicone is formulated to comply with the relevant requirements of U.S. Food and Drug Administration (FDA) regulation 21 CFR 177.2600. A Certificate of Compliance may be available upon request.

Health & Safety

Refer to the Safety Data Sheet (SDS) prior to use. Use appropriate PPE including gloves and eye protection. Ensure adequate ventilation during use.

Storage & Shelf Life

GREENSIL® Slow has a shelf life of at least 12 months when stored in sealed containers between 5°C and 30°C. Materials stored beyond this period may still be suitable for use; however, performance can vary. It is recommended that users carry out a small-scale test to confirm suitability for the intended application before use. Store in a cool, dry environment out of direct sunlight. Keep containers sealed when not in use.

Notes

For additional guidance on processing silicone, refer to the Technical Documents section on the GREENSIL® Slow product page or visit our Silicone Selection Guide online.

Issue Date27th May 2026**Revision Number**

1

Disclaimer

The data presented in this leaflet is in accordance with the present state of our knowledge and does not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Recommendations for use do not constitute a warranty, either expressed or implied, of the fitness or suitability of the product for a particular purpose.