

SILICONES

and more

Silicone Addition Colorless 25

Description

The Silicone Addition Colorless 25 is a 2-component (Platinum) Poly-Addition casting silicone which hardens at room temperature. The silicone is liquid after mixing. The silicone will get a very faint yellowish glow over time, but are perfect to color. The elasticity and strength of this silicone make the silicone widely applicable.

Technical data

Mixing ratio (weight)	[A:B]	100:100
Potlife @ 20 °C	[minutes]	30
Demold time @ 20 °C	[hours]	3-5
Viscosity@ 20 °C	[cSt]	3.900
Color		Transparent yellowish glow
Hardness	[Shore A]	23-27
Tensile strength	[N/mm ²]	7 +/- 2
Tear strength	[N/mm]	30 +/- 2
Rack	[%]	>420
Density @ 20 °C	[g/cm ³]	1.03

Please note: Pot life/demoulding time is highly dependent on temperature! At a higher temperature, the processing time and demolding time become shorter.

Processing

This silicone can be easily mixed by hand or by machine. Mix the A and B components together carefully and in the specified ratio (100 parts A and 100 parts B by weight). Process the mixture within the pot life and wait until it has hardened completely before demoulding. If necessary, you can speed up the curing process by heating the whole. Every 10 degrees roughly halves the time. Please note that in that case, air bubbles have less time to escape.

Additional information

The best way to prevent the capture of air bubbles is to vacuum the silicone immediately after mixing. To prevent air bubbles, stir the A and B components well but slowly without punching in air. It is best to make a "figure-8" movement.

If you want to lower the Shore (hardness), you can add silicone oil from the webshop. Please note: silicone oil does not cross-link into the silicone and may migrate to the surface over time.

If you don't want to pour the silicone but spatulate it, you can add Silicone Thixo A (note: not Silicone Thixo C!). You can also add fumed silica. You can color the silicone intensely with silicone dye.

Note: This is an addition curing (platinum)silicone. These silicones can be poisoned by sulfur, nitrogen, amino compounds, and metal salts. If you are not sure whether the products you are using (including gloves, spatulas and cups) contain these ingredients, do a small test first. These substances are found in many latex gloves, some plastilines, lacquers and adhesives, condensation silicone, 1-component silicone sealant, natural rubbers and 3D printing material (especially stereolithography). If you still want to use this, you will have to put on a protective layer of polyvinyl alcohol.

Shelflife

Provided that the silicone is stored in closed packaging, cool and frost-free, the shelf life is at least 1 year.

Safety requirements

If you frequently work with the silicone, it is recommended to wear gloves during processing and to ventilate the room well. For safety instructions, please refer to the safety data sheet.

Characterize

- Low contraction of <0.1%.
- Shore A 25 medium hardness for silicone rubber.
- Good liquid, self-venting
- Suitable for many kinds of flexible molds and finished products