

SiliCreate liquid silicone rubber, platinum-cure, Shore 45A

Description

SiliCreate is a two-component silicone with platinum addition curing, a mixing ratio of 1:1, which cures at room temperature. It is a food-contact compatible silicone and is generally used for making molds and silicone casting applications.

Technical specifications

Parameter	Value	Unit
Viscosity	25000 ± 500	MPa·s
Hardness	45 ± 2	Shore A
Tensile strength	≥ 4.6	MPa
Elongation at break	≥ 330	%
Tear strength	≥ 17	N/mm ²
Working time	30-40	min.
Curing time at 25°C	10-12	h.
Density after curing	1.14	g/cm ³

Features

- Color – transparent
- High tear strength
- Temperature resistance (from -60 °C to 200 °C)
- Zero shrinkage rate (0.1 %)

Mixing instructions

- Ensure all molding surfaces are completely clean to avoid curing issues.
- Mixing ratio: 1:1 by weight
- Ensure the mixture is completely combined to avoid curing issues.
- Generally, we recommend mixing for 30-40 min..
- Cures in 10-12 h. (higher temperatures → shorter curing time).

Tips and tricks

- Wear gloves when mixing and pouring.
- If mixing rarely, we recommend using disposable bowls/cups and plastic spoons.
- The recommended release agent for this silicone is petroleum jelly.
- Platinum-cured silicones should not be mixed with condensation-cured silicones. Using common tools for both may cause curing problems.

 **Platinum-cured silicones may be sensitive to cure inhibition. Avoid contact with materials containing chlorinated solvents, acetone, MEK, sulfur-containing clays, and sulfur-cured organic rubbers.**

We recommend using it within one year of opening.