SiliCreate liquid silicone rubber, tin-cure, Shore 20A

Description

SiliCreate is a two-component silicone with tin (condensation) cure, mixed by weight at 100:3 (Base:Catalyst), which cures at room temperature. It is designed for everyday mold-making and silicone casting applications in art, crafts, prototyping, and miniatures.

Compared to platinum-cure systems, tin-cure silicones are generally more economical, cure faster, and are less sensitive to cure inhibition. They are not intended for food-contact applications.

Technical specifications

Parameter	Value	Unit
Viscosity	20000 ± 4000	MPa·s
Hardness	20 ± 2	Shore A
Tensile strength	≥ 4	MPa
Elongation at break	≥ 500	%
Tear strength	≥ 23	N/mm²
Working time	30-40	min.
Curing time at 25°C	3-5	h.
Density after curing	N/A	g/cm³

Features

- Color – WHITE

- High tear strength

- Temperature resistance (from -30 ℃ to 120 ℃)

- Minimal shrinkage (0.3 %)

Mixing instructions

- Ensure all molding surfaces are completely clean to avoid curing issues.

- Mixing ratio: **100:3 by weight (Base:Catalyst)**

- Mix thoroughly, scraping sides and bottom, until the blend is uniform to avoid soft spots or under-cured areas.

- Typical working (pot) time: 30-40 min..

- Cures in 3-5 h. at 25°C (higher temperatures → shorter curing time).

Tips and tricks

- Wear gloves when mixing and pouring.

- If mixing rarely, consider disposable bowls/cups and plastic spoons.

- The recommended release agent for this silicone is petroleum jelly or a compatible commercial release agent.

- Do not mix tin-cured (condensation) silicones with addition-cured (platinum) silicones. Using common tools for both may cause curing problems.

⚠️ **Tin-cure silicones are generally less prone to cure inhibition, but avoid strong solvents, amines, and sulfur- or organotin-contaminated surfaces. Always test a small area if unsure.**

We recommend using it within one year of opening.