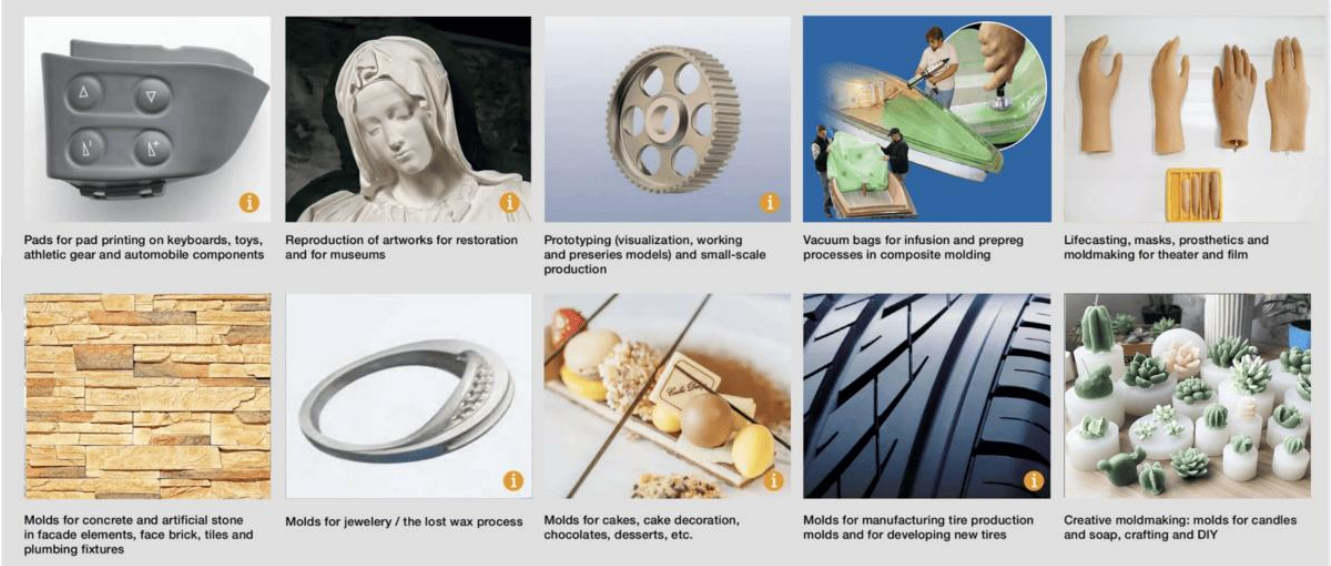
TOPSIL SILICONE

Technical Information

Platinum Cure Silicone Rubber/Mold Making

Application:

Platinum cure silicone rubber is a high-performance mold-making compound, ideal for reproducing models with undercuts using polyurethane or epoxy resins. Its primary applications include hand casting, vacuum casting, and low-pressure casting in rapid prototyping. It is also widely used in mold making for theater and film, concrete and artificial stone molding, jewelry manufacturing, the lost wax process, tire mold making, and creative molding for candles, soap, DIY projects, and various food-related applications such as cakes, chocolates, and desserts.



Characteristics:

Pourable, platium-curing, two-component silicone rubber that vulcanizes at room temperature and almost no shrinkage, no deformation.

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Features:

① very good flow
② High tear strength
③ Long shelf life
④ outstanding heat resistance to casting resins
⑤ food grade
⑥ good transparency
⑦ quite low shrinkage and no deformation

Product Data:

Translucent Series	Hardness (Shore A)	Mixing Ratio	Viscosity (mPa.s)	Working Time (25℃) mins	Curing Time (25℃) hrs	Tear Strength (kN/m)	Tensile Strength (Mpa)	Elongation (%)
TL-05	5±2	1A:1B	1500 ± 500	30~40	4~6	≥16	≥2.5	≥550
TL-10	10±2	1A:1B	2000 ± 1000	30~40	4~6	≥18	≥4.5	≥500
TL-15	15±2	1A:1B	2000 ± 1000	30~40	4~6	≥20	≥5.5	≥480
TL-20	20±2	1A:1B	3000 ± 1000	30~40	4~6	≥28	≥5.5	≥550
TL-25	25±2	1A:1B	4000 ± 1000	30~40	4~6	≥26	≥6.5	≥500
TL-30	30±2	1A:1B	5000 ± 1000	30~40	4~6	≥25	≥6.8	≥480
TL-35	35±2	1A:1B	7000 ± 1000	30~40	4~6	≥26	≥7.5	≥450
TL-40	40±2	1A:1B	9000 ± 2000	30~40	4~6	≥22	≥8.0	≥450
TL-50	50±2	1A:1B	12000 ± 2000	30~40	4~6	≥16	⩾7	≥400
TL-55	55±2	1A:1B	14000 ± 2000	30~40	4~6	≥12	⩾6	≥350
TL-60	60±2	1A:1B	18000 ± 2000	30~40	4~6	≥8	⩾5	≥300

Important Notice: The platinum catalyst is contained in part A.

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Clear Series	Hardness (Shore A)	Mixing Ratio	Viscosity (mPa.s)	Working Time (25℃) mins	Curing Time (25℃) hrs	Tear Strength (kN/m)	Tensile Strength (Mpa)	Elongation (%)
CL-10	10±2	1A:1B	6000 ± 1000	30~40	4~6	⩾8	⩾2.5	≥650
CL-15	15±2	1A:1B	8000 ± 1000	30~40	4~6	⩾10	≥2.8	≥650
CL-20	20±2	1A:1B	10000 ± 1000	30~40	4~6	⩾12	⩾3.5	≥600
CL-25	25±2	1A:1B	12000 ± 1000	30~40	4~6	⩾12	≥4.0	≥600
CL-30	30±2	1A:1B	15000 ± 2000	30~40	4~6	≥14	≥4.8	≥550
CL-35	35±2	1A:1B	17000 ± 2000	30~40	4~6	≥12	≥5.0	≥500
CL-40	40±2	1A:1B	20000 ± 2000	30~40	4~6	≥10	≥5.5	≥450

Transparent Series	Hardness (Shore A)	Mixing Ratio	Viscosity (mPa.s)	Working Time (25℃) mins	Curing Time (25℃) hrs	Tear Strength (kN/m)	Tensile Strength (Mpa)	Elongation (%)
TP-10	10±2	1A:1B	6000 ± 2000	30~40	4~6	⩾6	⩾2.2	⩾600
TP-15	15±2	1A:1B	8000 ± 2000	30~40	4~6	⩾8	⩾2.5	⩾600
TP-20	20±2	1A:1B	10000 ± 3000	30~40	4~6	⩾10	⩾3.5	⩾600
TP-25	25±2	1A:1B	12000 ± 3000	30~40	4~6	⩾10	⩾4.2	⩾600
TP-30	30±2	1A:1B	15000 ± 3000	30~40	4~6	≥12	⩾5.2	⩾500
TP-35	35±2	1A:1B	18000 ± 3000	30~40	4~6	≥10	⩾5.5	⩾400
TP-40	40±2	1A:1B	20000 ± 5000	30~40	4~6	≥8	⩾5.0	⩾350

ATT:

1).Color options available—red, pink, green, blue, and more.
2).Mixing ratio can be customized, such as 10:1.
3).Working and curing times adjustable to suit your process.
4).Tailored viscosity, tear strength, and tensile strength for optimal performance.

www.topsilsilicone.com info@topsilsilicone.com whatsapp:+86-19129352928

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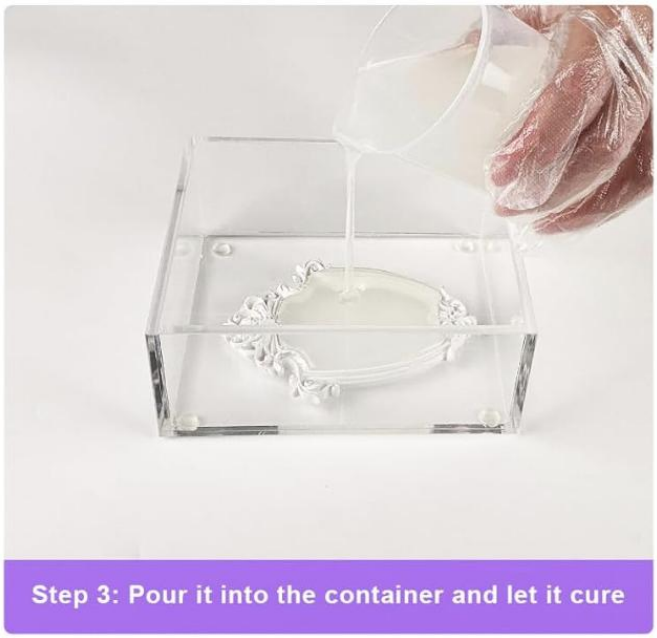
Instructions

1. Stir part A and Part B well before use.
2. Weight 1 Part A and Part B using an accurate scale and a clean mixing container
3. Vigorously mix and scrape walls of the container, continue mixing until uniform
4. Place the mixture in a vacuum chamber&degass. If without a chamber, pour the mixture 2-3 inches above the pattern in a this stream.
5. Allow the silicone to cure 4-6 hours and demold with care

Step 1: Pour the part A and part B equally

Step 2: Stir gently 3-5 mins until mixed thoroughly



Step 3: Pour it into the container and let it cure

Step 4: Take out the mold carefully

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Available Packages:

Part A	1kg/tin	5kg/tin	20kg/drum	25kg/drum	200kg/drum
Part B	1kg/tin	5kg/tin	20kg/drum	25kg/drum	200kg/drum

Important Note About Cure Inhibition:

Platinum cure silicone can be sensitive to certain contaminants. If your master pattern contains sulfur clay, latex, certain paints, uncured resin, tin cured silicone, heavy metals like NPb,Sn,Bi etc., or unfamiliar surface coatings, curing may be affected. In these cases, a small test cure is strongly recommended before full pouring. To prevent inhibition it's helpful to coat the pattern with clear acrylic lacquer or paint, don't use polyurethane or latex.

Follow the mixing ratio precisely; incorrect ratios can cause incomplete cure. Vacuum degassing is strongly recommended to avoid surface bubbles.

Shelf Life:

At least 18 months from the date of production.

Storage&Cautions:

* It should be stored in a dry place in its original sealed container.
*Read the product safety data sheet(MSDS) carefully before using, which can be got from the supplier.