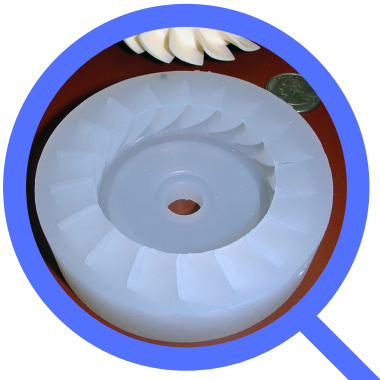
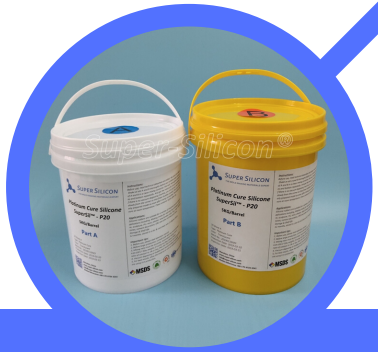
SUPER SILICON
THE MOLD MAKING MATERIALS EXPERT

Platinum cure
RTV-2 Silicone Mold Rubber

- Strength improved by 27%
- 100% No Shrink on cure
- FDA Approved

Platinum base P-Pro Series





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Super-Silicon

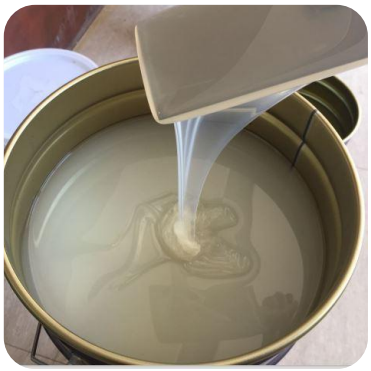
Description

P- Pro *series* ***Platinum cure silicone rubbers*** are platinum-cured (also known as addition-cure), room temperature-curing silicones that cure to flexible, super-strength rubbers. Platinum cured molds offer excellent release properties and release agent is not necessary when casting most materials.

Compared to tin-cured silicone rubbers, platinum cured silicones exhibit long library life and non-shrinkage on cure.

Key features

- Super strong Tear and Tensile strength, durable using life
- **100% No shrink on cure, No deformation**
- **High heat and chemical resistance, long service life**
- High elasticity, for easy removal of, complex replica parts
- Compliance with FDA Certificate, Odorless, Non-toxic, food-grade



Typical Uses & Casting Materials

Platinum cure silicone is designed for molding a variety of industrial and art-related applications including, Making molds to reproduce prototypes, furniture, sculpture, concrete, plaster, gypsum, fiberglass, wax/candle crafts, toys, soap, artificial stones, cement decoration, GRC, GRG and also food product items.
Especially for high precision products and request a no-shrink on cured mold, like Prototype mold making for electric & electronics industry such as TVs, Home appliances, mobile phones, copy machines, etc. and automotive industry such as console boxes, radiator grilles, lamp housings, etc.

Physical Properties	P-Pro 10	P-Pro 15	P-Pro 20	P-Pro 25	P-Pro 30	P-Pro 35	P-Pro 40
Hardness (A)	10A	15A	20A	25A	30A	35A	40A
Mixing Ratio (By weight)	1A:1B or 100A:10B	1A:1B or 100A:10B	1A:1B or 100A:10B	1A:1B or 100A:10B	1A:1B or 100A:10B	1A:1B or 100A:10B	1A:1B or 100A:10B
Color	A: Translucent B: Translucent						
Mixed Viscosity (Cps)	30,000-50,000	30,000-50,000	30,000-50,000	30,000-50,000	30,000-50,000	30,000-50,000	30,000-50,000
Working time	Standard type: 30-40Mins				Slow type: 60-90Mins		
Cure time	Standard type: 5-8hrs				Slow type:10-12hrs		
Tear strength (KN/m)	≥16	≥18	≥22	≥26	≥28	≥24	≥21
Tensile Strength (Mpa)	≥3.5	≥3.8	≥4.2	≥4.5	≥4.8	≥4.5	≥4.5
Elongation (%)	≥600%	≥550%	≥550%	≥500%	≥450%	≥400%	≥380%
Shrinkage (%)	0%	0%	0%	0%	0%	0%	0%

Instructions

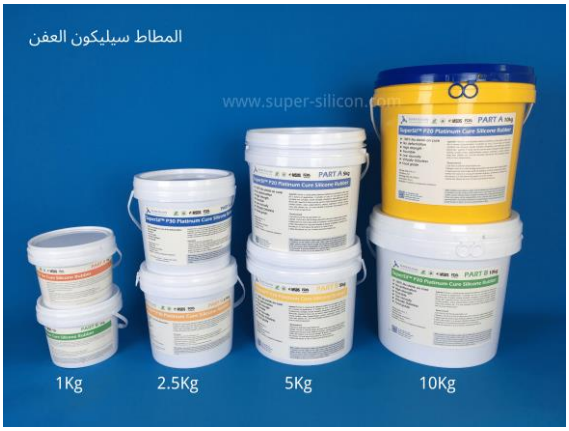
1. Stir Part A and Part B well before use.
2. Weigh **1 Part A to 1 Part B** using an accurate scale and a clean mixing container.
3. Vigorously mix and scrape walls of the container, continue mixing until uniform.
4. Place the mixture in a vacuum chamber & degass. If without a chamber, Pour the mixture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

Important tips

1. Before use, read operation manual please.
2. Before large production, a small-scale test is recommended.
3. Mixing ratio must be accurate, mixing ratio is **A:B=1:1 (by weight)**
4. Use a vacuum to de-gas this product before use under pressure. Vacuum silicone for 2-3 minutes (29 inches of mercury). Leave enough room in the container for silicone to expand.
5. This product has limited shelf life. Use as soon as possible after opening.
6. Always tightly reseal containers after use. Air, moisture or other contamination causes a reduction in reactivity over time.

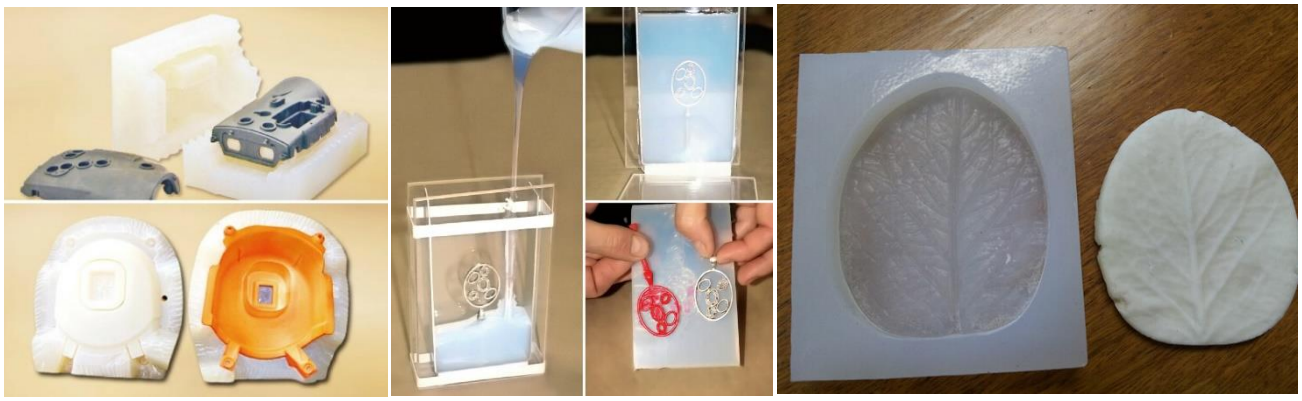
Package

Silicone	1kg/barrel	5kg/barrel	20kg/barrel	200kg/barrel
Catalyst	1kg/barrel	5kg/barrel	20kg/barrel	10kg/container



Storage & shelf-life

16+ months, should be stored in original, unopened containers between 15 and 25°C.
Always tightly reseal containers after use. Air, moisture or other contamination causes a reduction in reactivity over time, out of direct sunlight and away from direct sources of heat.



Especially Caution for platinum cure silicone

Platinum cure silicone rubber may be inhibited by certain contaminants resulting in tackiness on the surface of the mold. Latex, sulfur-based clays, tin cured silicone rubber, amines, nitriles, organo-metallic salt-containing compounds should be avoided. If you are unsure of the compatibility of the substrate being molded a small test is recommended. To prevent inhibition it is usually helpful to coat the pattern with clear acrylic lacquer or paint. Do not use polyurethane or latex.

A Comparison: Tin-cured silicone vs. Platinum-cured Silicone Mold Rubbers.

Rubber Type	Advantages	Disadvantages	Casting Materials	Methods
Platinum-Cured Silicone Mold Rubbers	No release agent needed. No shrink on cure. Cured rubber has long storage life. Excellent chemical resistance.	Cure inhibited by some surfaces.	Most materials, especially resins, foams, plaster, wax, concrete etc. and some low-melt metals and food grade products mould.	Pour, Brush
Tin-Cured Silicone Mold Rubbers	High strength. Excellent chemical resistance. Slight cheaper than platinum.	Shrinks on cure (~0.3%). Cured rubber has limited storage life.	Most materials, especially resins, foams, plaster, wax, concrete etc.	Pour, Brush

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