

SH-109 Polysiloxane Resin

Product SH-109 is a liquid siloxane polymer resin containing methyl and methoxy functional groups. It

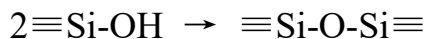
Property can cure at room temperature in the presence of the moisture, with the curing speed depending on the catalyst and environmental temperature and humidity. It exhibits high hardness and excellent heat resistance. The coating film formed after adding a curing agent has outstanding properties such as corrosion resistance, UV resistance, weather resistance, temperature resistance, and acid resistance.

- | | |
|---|------------------------------------|
| ◆ Low viscosity liquid, solvent-free polysiloxane resin | ◆ Weather resistance |
| ◆ Appropriate flexibility | ◆ Few smoke during initial heating |
| ◆ Thermosetting | ◆ Cure at room temperature |
| ◆ High-temperature resistance | ◆ Acid resistance |
| ◆ Pretty high inorganic content | |

- Application**
- ✓ Anti-corrosion protective coatings
 - ✓ High-temperature resistant coatings
 - ✓ Exterior wall coatings for buildings
 - ✓ High-performance fire-resistant coatings
 - ✓ Coating agents
 - ✓ As a resin modifier, it is used to introduce organic silicone components into other resins.

Product	Color:	Colorless to light yellow
Index	Appearance:	Clear, low viscosity liquid
	Active Ingredients:	>98.00%
	Specific Gravity:	1.05-1.15
	Viscosity:	50-150cp
	Flash Point:	>75°C

Method of application SH-109 cures through the condensation polymerization of silanol groups. The basic principle is as follows:



Therefore, heat-resistant coatings or coating agents based on SH-109 can be either single-component or two-component systems.

Once a catalyst is added to a single-component system, it becomes highly sensitive to moisture.

Attention must be paid to the storage stability and pot life during development and production.

Two-component systems offer a longer storage period.

Component A: SH-109 resin and other necessary components.

Component B: Contains the catalyst and other solvents(if needed).

Suitable catalysts include acids and bases, tin, zinc, and zirconium compounds. The recommended catalyst is alkyl titanate.

Recommended Curing Agent EC-289M

Recommended Curing Agent Ratio SH-109:EC-289M=11:1

Suitable solvents include alcohol ether solvents, etc.

Potential application: It can be introduced into organic resins to improve the temperature resistance of products.

Storage	Store at a temperature of -5-40℃, avoid direct sunlight. Shelf life of 12 months (unopened).
Packaging	25kg/drum; 200kg/drum
Discharge	Do not discharge it into the wastewater system, put it in a specific container for professional disposal.
Emergency treatment	1. In case of leakage or spillage, collect it in a container and clean the ground pollutants with a cloth. 2. If this product accidentally come into contact with the eyes, rinse immediately with plenty of water for at least 15 minutes. If discomfort persists, seek medical attention immediately. 3. If this product comes into contact with the skin, wash with water and soap. Seek medical attention immediately if discomfort occurs. 4. If you accidentally inhale spray or gas in the oven, immediately transfer to a fresh air place, and then seek medical advice.