

# SI8295

## Silicone Potting Sealant

Premium Quality & Ultimate Service

# RTV / Heat Cured Silicone Potting Adhesive

## SI8295



### ■ Technical Data Table

TESTING ITEM	ESTING STANDARD	Part A	Part B
Color	Visual inspection	White viscous liquid	Red liquid
Viscosity, cps , 25°C	GB/T 10247-2008	7500	1000
Density,,g/cm3, 25°C	GB/T 15223-1994	1.56	1.28
Mixture ratio	Weight Ratio	A : B = 100 : 10	
Viscosity of mixture,4#rotor,cps , 25°C	GB/T 10247-2008	4000	
Mixture density	25°C, g/cm3	1.45	
Operation time,mins , 25°C	GB/T 10247-2008	50-60	
Tack free, mins, 25°C	GB/T 10247-2008	100-150	
Cure condition	GB/T 10247-2008	100°C/ 60mins	
<b>Characteristics after curing</b>			
Cured appearance	Visual inspection	Red elastomer	
Hardness, Shore A	GB/T 531-2008	45±5	
Shear strength,MPa	GB/T 7124-2008	>1.5	
Thermal conductivity, W/mK	GB/T 10297-1998	0.45	
Dielectric strength ,kV/mm, 25°C	GB/T 1695-2005	≥20	
Volume resistance,DC 500V, Ω·CM	GB/T 1692-92	1.1×10 <sup>15</sup>	
Loss factor(1 MHz)	GB/T 1693-2007	<0.008	
Dielectric constant(1 MHz)	GB/T 1693-2007	3.00	
Application temperature, °C	GBT 20028-2005	- 60 ∞ 260	

### ■ Product Description

S8295A/B is a two-component addition cured silicone potting compound that can be cured at room temperature and heating. After curing, it will

form an insulating soft and elastic rubber elastomer, which can protect circuit boards, electronic appliances or other potting Sealing and protecting objects, stable use in harsh environments, resistance to high temperature and

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moisture, and continuous protection of thermal conductivity and flame retardant insulation.

### ■ Typical Applications

- The stator of the generator;
- Power vacuum circuit breaker;
- Magnetic induction coil; ceramic electrode;
- Automotive electronics, power control module;
- Photovoltaic junction box, photovoltaic inverter

### ■ Key Features

- Two-component addition type silicone rubber
- Low curing shrinkage
- Excellent high-temperature electrical insulation and stability
- Good adhesion after heating and curing, the longer the heat curing, the better the adhesion
- Good waterproof and moisture resistance
- Good Flame retardant

### ■ Packing Specification

- Part A: 5kg/drum
- Part B: 0.5kg per bottle

### ■ Transport & Storage

● When stored at or below 35°C in the original unopened containers, this product has a usable life of 12 months from the date of production. Sampling test is necessary for products which exceed shelf life before taking use. During storage may have little settlement stratification, stirring evenly when use, does not affect performance.

It's non-dangerous goods, can be transported as normal chemicals, CAUTION leakage during transport.

### ■ Directions for Use

1. Mixing uniformity in the packing before using, as there's part of filler sedimentation happens during storage.
  2. Mix Part A and Part B by 10:1 mass ratio, after evenly mixed, pouring directly into the components or modules as per requirements. It's recommended to slowly pour along the walls of the implements, so as to reduce the bubbles happens.
  3. Still the potted component to let out the bubbles. Can be cured by heat, about 30 minutes in 120°C. If cured under room temperature, about 8 hours.
  4. The adhesive force cured at room temperature is weak; the adhesive force cured at 80 ° C is slightly better; in order to obtain a good bonding effect, it is recommended that the heating temperature should not be lower than 100 ° C, preferably above 120 ° C.
  5. Recommended curing conditions: 100°C for 1 hour.
  6. Please test the bonding of the substrate before use.
- Vacuum defoaming can improve the performance of cured product.
  - Seal the remaining products tightly after use.
  - Low temperature will slow the curing speed, overheating will lead to curing speed too fast. Keep the constant temperature in workshop is recommended.
  - It's hard for SI8295 to cure if contact with sulfur, amine, organotin and unsaturated hydrocarbon plasticizer. Common substances like rosin, natural rubber. For these should do test before application.

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### ■ Attention of operation

- Keep away from Children
- Avoid contact with eyes and skin. If contact with your skin, scrub first with soap water or alcohol, then rinse with water. If contact with your eyes,

rinse with plenty of water, and seek medical treatment immediately.

- It is forbidden to build on the surface of the wet substrate.

### ■ Safety Operation Data

MSDS isn't included here. Please read TDS, MSDS and label carefully before operation. You can get MSDS from MAXTECH or other distributors, or mail to service center [maxtech@shmaxtech.com](mailto:maxtech@shmaxtech.com)

### ■ Warranty and Liability

All product properties and application details based on information believe to be reliable and accurate. But you still need to test its property and safety before application. The advice we supply don't apply in any circumstances. MAXTECH don't make assurance of any other applications outside the specification until MAXTECH supply a special written guarantee. MAXTECH is only responsible to replace or refund if this product is defective within the warranty period stated above. MAXTECH makes it clear that will not be liable of any accidents.

**Special Notes:** All recommendations concerning our products, including transportation, storage, and handling are based on our current knowledge and experience under normal conditions. In practical application, results may differ because of materials and actual site conditions change, our company won't guarantee or bear any legal responsibility. In order to ensure the bonding effect and the compatibility of products and materials, it is recommended to do the compatibility test or consult MAXTECH Technical Services before proceeding with the full application.