

SI8300 A/B

Silicone Potting Sealant

RTV / Heat Cured Silicone Potting Adhesive

SI8300A/B

■ Technical Data Table

TESTING ITEM	ESTING STANDARD	Part A	Part B
Color	Visual inspection	White/Gray viscous liquid	Red/Transparent viscous liquid
Viscosity, cps , 25°C	GB/T 10247-2008	9,500	750
Density,g/cm3, 25°C	GB/T 15223-1994	1.55	0.98
Mixture ratio	Weight Ratio	<i>A : B = 100 : 10</i>	
Viscosity of mixture,4#rotor,cps , 25°C	GB/T 10247-2008	4,300	
Density of mixture,g/cm3(25°C)	----	1.40	
Operation time,mins , 25°C	GB/T 10247-2008	60	
Cure condition	GB/T 10247-2008	25°C/6 hrs or 80°C/ 30mins	
Characteristics after curing			
Cured appearance	Visual inspection	Red/White elastomer	
Hardness, Shore A	GB/T 531-2008	55	
Shear strength,MPa,Fe-Fe, MPa	GB/T 7124-2008	1.4	
Thermal conductivity, W/mK	GB/T 10297-1998	0.80	
Dielectric strength ,kV/mm, 25°C	GB/T 1695-2005	≥22	
Volume resistance,DC 500V, Ω·CM	GB/T 1692-92	1.1×10 ¹⁵	
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	

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■ Product Description

SI8300 is two-component white color silicone potting adhesive. The mixture has a good fluidity, can vulcanize to deep layer in room temperature. The operation time can be adjusted according to the temperature. Used to potting protection of varied components..

■ Typical Applications

● Used for encapsulation of various modules, automotive module, LED Power driver modules, Solar

panel junction box, Magnetic induction coils, Ceramic electrode, Vacuum circuit breaker, etc.

■ Key Features

1. Two-part addition type silicone adhesive
2. Low hardening shrinkage
3. Excellent electrical insulation in high temperature and stability
4. Excellent adhesion, cured the longer, the better adhesion
5. Good waterproof and moisture resistance

■ Packing Specification

- ◇ SI8300W, White
A0105120: 10kg/drum ,
B0105121: 1kg/drum
- ◇ SI8300G, Gray,
A0105122: 10kg/drum.
B0105121: 1kg/drum
- ◇ SI8300RRed,
A0105140: 5kg/drum ;
B0105141: 0.5kg/drum
- ◇ Customized Packing

■ Transport & Storage

● When stored at or below 25°C in the original unopened containers, this product has a usable life of 12 months from the date of production.

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 80°C. If cured under room temperature, about 6 hours.
- 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 SI8300 to cure if contact with sulfur, amine, organotin.

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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

■ 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.