



SI8250(170#) A/B Potting Sealant

Premium Quality & Ultimate Service

Two Component Silicone Potting Sealant

Two Component RTV/Heating Cured Silicone Potting Sealant SI8250ZH

■ Product Description

8250ZH A/B is a two-component silicone thermal conductive potting adhesive with low viscosity.

After mixing, it has excellent fluidity. The operating time can be adjusted according to the temperature, and it can achieve deep curing at room temperature. It is suitable for the potting protection of various heat-dissipating and temperature-resistant components, and fully complies with the EU ROHS Directive and SVHC REACH requirements.

■ Key Features

- Two-component addition-cured silicone rubber
- Mixing ratio of 1:1
- Low shrinkage rate during hardening
- Excellent electrical insulation and stability at high temperatures
- Good waterproof and moisture-proof properties
- Excellent flame retardancy

■ Typical Applications

- Automotive electronics and modules
- LED power driver modules
- Junction boxes for solar panels
- Electric vehicle charging post modules
- Lithium battery packs and capacitor banks
- Magnetic induction coils
- Inverter power supplies

■ Technical Data Table

Testing Item	Testing Standard	Part A		Part B	
		Black Liquid	Viscous	White Liquid	Viscous
Appearance	Visual inspection	Black Liquid	Viscous	White Liquid	Viscous
Viscosity,cps, 25°C	GB/T 10247-2008	1600±200		1000±200	
Density,g/cm ³ , 25°C	GB/T 15223-1994	1.35±0.05		1.35±0.05	
Mixture ratio	Mass ratio	A: B = 100: 100			
Mixed Viscosity,4#rotor,cps	GB/T 10247-2008	1300±200			
Mixed Operating time ,min ,	GB/T 10247-2008	40-70			

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25°C		
Mixed tack free time, min, 25°C	GB/T 10247-2008	120±20
Cured condition	GB/T 10247-2008	25°C/5hr 或 80°C/ 30mins
The Characteristic after cured		
Appearance	Visual inspection	Black
State	Visual inspection	Flexible elastomer
Hardness, ShoreA	GB/T 531-2008	42±5
Thermal conductivity, W/mK	GB/T 10297-1998	0.45
Linear thermal expansion , K-1 , ppm	HGT 2625-1994	230
Dielectric strength,kV/mm,25°C	GB/T 1695-2005	≥20
Volume resistance,DC500V , Ω·CM	GB/T 1692-92	1.1×10 ¹⁴
Dielectric loss(1 MHz)	GB/T 1693-2007	0.009
Dielectric constant (1 MHz)	GB/T 1693-2007	3.00
Application temperature, °C	GBT 20028-2005	- 60 ~ 200
Flame resistance	UL-94	V-0

Note: The operating time and curing time are tested with a mixed glue quantity of 100g under the conditions of 25°C and 55% relative humidity (RH). All the data of the cured product are measured after the glue is cured for 7 days under the conditions of 25°C and 55% RH.

■ Packing Specification

SI 8250(170#)Silicone potting glue

Part A: 10 kg/Drum, code: A 825017

Part B: 10kg/Drum, code B 8250181

■ Transport &Storage



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ELECTRICAL ADHESIVE SERIES

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- This product should be stored in a cool and dry environment below 35°C. The storage period is 1 year when stored below 25°C.
- This type of product is non - hazardous and can be transported as general chemicals. Be careful to prevent leakage during transportation.
- For products that have exceeded the shelf - life, check for any abnormalities before use.
- During storage, slight sedimentation and stratification may occur. Stirring the product evenly before use will not affect its performance.
- To reduce severe sedimentation and caking, the stored materials should be turned upside down regularly. It is recommended to turn them over once a month.

■ Directions for Use

- Before applying the adhesive, stir components A and B evenly in their respective packages. This is because during the storage process of the adhesive, the fillers may partially settle.
- Weigh components A and B in a 1:1 ratio, mix them evenly, and then directly pour the mixture into the components (or modules) that need potting protection. It is best to pour the mixture slowly along one side of the container wall to reduce the generation of air bubbles.
- Let the potted components stand still to allow the air bubbles to escape on their own. After the air bubbles have basically disappeared, the components can be cured by heating. Alternatively, they can be cured directly at room temperature, which takes approximately 5 hours.
- For potting equipment that requires quantitative glue dispensing, please consult our company's marketing department.

■ Attention of operation

Workplace Safety Protection

- **Work Clothing:** Required
- **Gloves:** Mandatory
- **Sleeve Protectors:** Recommended when there is skin contact
- **Goggles/Safety Glasses:** Required
- **Gas/Dust Masks:** Not required

Skin Protection

- **Before Work:** Apply protective ointment on exposed skin.



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- **After Work:** Apply protective or nourishing ointment.
- **Cleaning of Contaminated Skin:** Gently wipe with a paper towel, then wash with warm water and non - alkaline soap, and dry with a disposable towel. Do not use solvents.

Workplace Cleaning

Cover the workbench with light - colored paper. Use disposable beakers, etc.

(Spill Treatment)

Absorb the spill with sawdust or waste cotton, and then place it in a garbage bin lined with plastic.

Ventilation Measures

- **Workshop:** Conduct regular air exchange and ventilation.
- **Workplace:** Install exhaust fans. Operators should be cautious to avoid inhaling steam.

■ 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 handing 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.