

# SI8130 A/B

## Silicone Potting Sealant

### Two Component Silicone Potting Adhesive SI8130 A/B

#### ■ Technical Data Table

TESTING ITEM	ESTING STANDARD	Part A (A2)	Part A (A3)	Part B(B1)
Color	Visual inspection	Black/White fluid, flame retardant		Colorless fluid
Viscosity, cps , 25°C	GB/T 10247-2008	5500±500		15~30
Density,g/cm <sup>3</sup> , 25°C	GB/T 15223-1994	1.3±0.05		1±0.05
Curing agent	A with B	B1	B1	
Mixture ratio	Weight Ratio	A: B = 100: 10		
Viscosity of mixture,4#rotor,cps , 25°C	GB/T 2794-2013	3,000±500	3,000±500	--
Operation time,mins , 25°C	GB/T 10247-2008	20-50	20-40	--
Tack Free Time, 25°C	GB/T 10247-2008	40-70	60-120	--
<b>Characteristics after curing</b>				
Cured appearance	Visual inspection	Black elastomer	Black elastomer	--
Hardness, Shore A	GB/T 531-2008	45±5	45±5	--
Tensile strength, Mpa	GB/T 528-2009	1.5	1.5	--
Elongation at break	GB/T 528-2009	>80%	>80%	--
Shear strength,MPa,Fe-Fe	GB/T 7124-2008	0.6	0.6	--
Linear expansion coefficient, ppm	HGT 2625-1994	200		--
Thermal conductivity, W/m.K	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	1.0×10 <sup>14</sup>		--
Loss factor(1 MHz)	GB/T 1693-2007	<0.008		--
Dielectric constant(1 MHz)	GB/T 1693-2007	3.2		--
Flame retardant grade	UL94	V-0		--
Long time Application temperature, °C	GBT 20028-2005	-50~150		--

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Premium Quality & Ultimate Service

PS: The operating time is tested based on the amount of glue 118g.

All data of the curing state are measured after 7 days of curing under the conditions of 25°C and 55%RH

### ■ Product Description

SI8130 A/B is suitable for potting protection of various components. It can be deep-cured, and the two components have good fluidity after mixing. The operating time can be adjusted according to the temperature of the curing agent. There is no need to use other primers before use, it has a good bonding effect to most materials, and is suitable for fixing accessories, waterproofing, dust proofing and preventing leakage.

### ■ Typical Applications

- Automotive electronics, modules
- Various sensors
- Power control module
- solar junction box

### ■ 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 100:10 mass ratio, after evenly mixed, pouring directly into the components or modules as per requirements.

- LED to shoot the light, wall wash lights, strip lights, LED fluorescent lamp

### ■ Key Features

- Two-component liquid silicone rubber, condensation and dealcoholization type
- Low viscosity, easy processing, strong operability
- Low hardening shrinkage, no corrosion and stress
- Excellent high-temperature electrical insulation and stability
- Excellent adhesion
- Good waterproof and moisture resistance
- Flame retardant

### ■ Packing Specification

- ◇ Part A: 20kg/drum;
- ◇ Part B: 5kg/pot
- ◇ Part A: 200kg/drum;
- ◇ Part B: 20kg/drum
- ◇ Customized Packing
- ◇ SI8130W White, A0104181+B0104182
- ◇ SI8130W White fast, A0104183+B0104182
- ◇ SI8130B Black, A0104180+B0104182
- ◇ SI8135B Black, A0104170+B010417

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. If possible, customers can vacuum and degas the mixed glue before potting. It can be cured directly at room temperature, usually within 1-6hr, the glue layer is elastic and can be

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turned over or handled.

- 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 SI8130 to cure if contact with sulfur, amine, organotin.

### ■ 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.