

KY-HGS 8120 Thermal potting adhesive

KY-HGS8120 waterproof power sealing silicone is a two-component condensed room temperature vulcanized organic silicone, which does not require a primer during use and has strong adhesion to various component materials (except PP and PE electronic components). Has good insulation, moisture resistance, earthquake resistance, leakage resistance, and dielectric resistance. Suitable for sealing various outdoor drive power supplies, outdoor LED lighting equipment, outdoor electrical equipment, etc. Fully comply with the EU ROHS directive requirements.

Product feature

- Good fluidity and automatic leveling after mixing
- Good insulation performance
- No shrinkage or heat release after curing
- Soft elastic material after curing
- Excellent heat shock resistance
- Long term non caking, loose and easy to stir, excellent anti sinking and anti caking properties

Product application

- potting protection of indoor and outdoor LED display
- Deep waterproof potting of electronic component modules

Technical specification

		project	component		
			unit	A	B
/	Before curing	facade	/	Black, white and grey	Colorless or light yellow
		viscosity	cps	4200±500	50±10
/	operating characteristic	use ratio	/	10:1	
		Mixed viscosity	cps	3200±300	
		operable time (25 °C)	min	25 ~ 35	
		Full Cure	hour	24	
ASTM D2240	After curing	hardness	shore A	25 ~ 35	
/		Continuous use Temp	°C	-50 ~ 200	
ASTM D412		tensile strength	Mpa	≥0.5	
ASTM D150		dielectric constant	1.2MHZ	2.9	
ASTM D257		Volume resistivity	Ω.cm	1.0×10 ¹⁵	
ASTM D149		dielectric strength	KV/mm	≥25	
ASTM D412		Elongation	%	100 ~ 150	
UL-94		fire resistance	UL-94	V0	

* The above performance data were all measured at 25°C and 55% relative humidity 1 day after forming. The company does not assume any responsibility for the different data caused by different test conditions or product improvement. The images may be different from the original products.

● **Method of application**

1, before mixing, first of all, the A component and B component in their respective containers fully stir.

2, when mixing, should comply with A component: B component = 1:1 weight ratio.

3. In general, products with a potting thickness below 20mm can naturally defoam, because the higher the temperature, the faster the curing speed will be

Speed up, for thicker products, can be defoamed according to needs. This is in order to remove the potting surface and internal production

The mixture should be put into a vacuum container and defrosted at -0.08MPa for at least 5 minutes.

4. The corresponding curing time should be maintained above the temperature given in the technical parameter table before and after curing, if the application thickness is relatively high Thick, curing time may exceed. It can be cured at room temperature or by heating. The curing speed of the glue is affected by the curing temperature in winter

It takes a long time to cure, it is recommended to use heating curing, curing at 80°C for 30 minutes, under room temperature conditions generally need 8

Cure in about hours.

● **Matters need attention :**

1. After the operation is completed, the glue (unmixed) that A and B have not used up should be sealed and stored immediately. Stir well when using again.

2, in case of contact with skin, wipe clean, and then rinse with water; In case of contact with eyes, rinse immediately with water and remove

Hospital check.

● **Storage and transportation :**

1, this product is non-toxic non-dangerous goods, according to the general chemical handling and transportation can be

2, after use, pay attention to seal, store in a cool, dry, ventilated place.

3. The shelf life of this product is 12 months

● **Packing specification**

25Kg/ set (12.5Kg for A component + 12.5Kg for B component)

50Kg/ set (25Kg of Component A + 25Kg of component B)

600Kg/ set (A component 300Kg +B component 300Kg)

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