

Guibao 662 Two-part Silicone Sealant for Automotive Lamps

Product Features

GUIBAO 662 Two-part Silicone Sealant for Automotive Lamps is a two-part, fast-curing neutral silicone sealant. Its features are as follows:

- Two-part neutral fast curing silicone sealant;
- Flexible elastomer after curing;
- After curing, the performance is stable in the range of -55°C ~ +180°C;
- Bond a variety of materials such as metals, plastics, ceramics and glass;
- Convenient application, suitable for assembly line production;
- Recommended ratio is 8~12:1 (weight ratio), and the best ratio is 10:1 (weight ratio);
- Patented product owned by Guibao Company.

Application Area

- Waterproof bonding and sealing of automobile lamp;
- Waterproof bonding and sealing of LED automotive lamps and other high-end lamps.
- Bonding and sealing for metal, plastic, composite material and other substrates.

Typical Performance Indicators (should not be used as product standards)

Sr.No	Item	Typical Technical Parameters	Test Method
Before curing			

1	Appearance		Non-flowing paste	Visual inspection
2	Slump, mm		0	GB/T 13477
3	Viscosity, Pa·s	A 组分 Part-A	150	-
		B 组分 Part-B	50-80	
4	Working time, min(23℃,50%RH)		5-10	GB/T 13477
5	Tack-free time, min(23℃,50%RH)		8-15	GB/T 13477
After curing (after 7 days placed at temperature of 23℃ ± 2℃ and relative humidity of 50% ± 5%)				
6	Apperance		Elastic rubber	-
7	Shore hardness, Shore A		40	GB/T 531
8	Shear strength, MPa		1.5	GB/T 16776
9	Tensile strength, MPa		2.4	GB/T 528
10	Elongation at break,%		350-450	

*These data are tested under standard conditions.

Color

- Guibao 662 Two-part Silicone Sealant for Automotive Lamps: Part-A is white, Part-B is black, and its mixture is black or gray.

Packaging Specifications

- Guibao 662 Part-A is packed in a iron drum with the net capacity of 240Kg or a plastic drum with the net capacity of 25Kg;
Guibao 662 Part-B is packed in a plastic pail with the net capacity of 18Kg or a plastic pail with the net capacity of 20Kg;
Or customized packaging as per the client requirements.

Storage and Transportation

Store at 0~27°C, in a cool, dry and ventilated place. Guibao 662 Part-B should be strictly stored and sealed because the contact of Part-B with water vapor in the air will release hydrolysis reaction;

From the date of production, the storage period is 9 months;

This product is stored and transported as non-dangerous goods.

Application Method

Surface Treatment

- The surface of substrate needs to be dry and clean to remove rust, dust, oil, etc.
- Usable cleaning solvents include alcohol, acetone, etc.

Bonding

- Good adhesion to most substrates, except PTFE, PE, PMMA and similar materials.
- Apply sealant onto the cleaned surface with the application gun to make it evenly distributed.
- If the temperature is lower, the curing time will be extended.

Plasma Treatment

- For materials with low surface energy, the plasma treatment is required.

Priming

In order to achieve the best bonding effect, it is recommended to use GB (GUIBAO) special primer;

Treat the surface of substrate with solvent, then dip, brush or spray the primer on the surface of substrate to form a coat of thin film;

After the primer drying for 5~10 minutes, apply silicone sealant to the surface of primer to generate adhesion.

Site Test

Butterfly test

The butterfly test should be performed every time when the machine is turned on, including the power on after an interruption. The purpose of this test is to check whether the Part A and Part B are evenly mixed.

Working time test

If the two-part sealant has been fully and evenly mixed (confirmed by the butterfly test), the next step can be the working time test. This test needs to be performed every day. The working time is related to the mixing ratio of the main agent and the curing agent, and can provide a reference for the working time and internal deep curing time of sealant.

Adhesion Test

The adhesion test is a method to test the adhesiveness of the sealant to the actual substrate. The sealant should be applied on each representative substrate. When replacing the bonding material, you should actively test the adhesion on the substrate to avoid bonding failure due to the replacement of the substrate. When replacing the substrate, the substrate should be sent to Guibao for the bonding test conducted by Guibao technician.

Usage Limits

- When the material surface is below 4 °C or above 50 °C , it is not suitable for application.
- Not suitable for use in dense and unventilated places and continuous immersion in water, and also cannot be used as structural adhesive.
- Due to the diversity of the materials to be bonded and the differences between batches, the adhesive performance of the sealant may be reduced, and the adhesiveness test must be carried out before application.

Safety Instruction

This product is non-toxic after fully cured, but before curing, avoids contact with eyes. If contact with eyes, please rinse with plenty of water and seek medical treatment; uncured products should be kept away from children; attention should be paid to ventilation in the construction and curing area.

注意

Cautions

The information contained in this article is considered reliable by our company, and the data in the product description are non-factory standard values. The recorded content, product performance improvement, product specifications, etc. may be changed without notice;

Our company only guarantees that the product meets the specifications because the difference in the client's use conditions, the product storage & transportation and construction process are not under the control of our company. When the client uses our product, the surface characteristics of material exist differences due to the influence of the process of different material manufacturers, so it is sure to test first to confirm that the product is suitable for your purpose of use. If the bonding fails due to untested, our company does not assume any responsibility.