



# Guangzhou Baiyun Chemical Industry Co.,Ltd.

Add: No.1 Yun an Road,Guangzhou Civilian Science Technology Park,Taihe,Guangzhou.China  
Tel: +86-186 2018 6748 Email: [liling@china-baiyun.com](mailto:liling@china-baiyun.com) Website: [www.chinasealant.com](http://www.chinasealant.com)

## BAI YUN<sup>®</sup> SS511B Silicone Weather Proofing Sealant

### FEATURES

- Extension/compression movement capability of up to  $\pm 35\%$  of the original joint width
- Suits applications in the areas with large difference in temperature and low humidity
- Odorless, non-corrosive curing system
- Excellent weatherability and high resistance to ultraviolet radiation, heat and humidity, ozone and temperature extremes
- Remains flexible over a temperature range of  $-58^{\circ}\text{F}(-50^{\circ}\text{C})$  to  $302^{\circ}\text{F}(150^{\circ}\text{C})$
- Excellent unprimed adhesion to wide range of substrates including coated, enameled and reflective glasses, anodized and polyester coated or painted aluminum profiles
- Good compatibility with other neutral silicone sealants

### COMPOSITION

- One-part, neutral-curing
- RTV silicone sealant

### APPLICATIONS

- Weather sealing in glass curtain wall joints
- Weather sealing in metal, enamel curtain wall joints
- Sealing in expansion joints for concrete, plastic and metal etc
- Sealing in roof joints
- Many other uses

### TYPICAL PROPERTIES

Property	Result	Test method
<b>Uncured-As Tested at 23°C (73°F) and 50% RH</b>		
Color	Black, gray, white	
Specific Gravity	1.34	ASTM D1875
Working time(23°C/73°F, 50% RH)	10-20minutes	ASTM C679
Tack-free time(23°C/73°F, 50% RH)	60minutes	ASTM C679
Curing time(23°C/73°F, 50% RH)	7-14 days	
Flow, Sag or Slump	<0.1mm	ASTM C639
VOC Content	<39g/L	
<b>As Cured-After 21 days at 23°C (73°F) and 50% RH</b>		
Durometer Hardness, Shore A	25-45	ASTM D2240
Peel Strength	29lb/in	ASTM C719



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Joint Movement Capability	± 35%	ASTM C719
Tensile Adhesion Strength		
AT 25% extension	0.302MPa	ASTM C1135
AT 50% extension	0.469MPa	ASTM C1135
<b>Specifications:</b> Typical property data values should not be used as specifications. Assistance with specifications are available by contacting Guangzhou Baiyun Chemical Industry CO., LTD.		

### DESCRIPTION

BAIYUN SS511B Silicone Weather Proofing Sealant is a one-component neutral curing silicone sealant with excellent adhesion, weatherability and elasticity for weather sealing in curtain wall and building facades. It easily extrudes in any weather and quickly cures at room temperature by reaction with moisture in the air to form a durable, flexible silicone rubber seal.

### SPECIFICATIONS

BAIYUN SS511B Silicone Weather Proofing Sealant meets or exceeds the requirements of the following specifications for one-part sealants.

Specifications:

- ASTM C920; Type S, Grade NS, Class 35, Use NT, A, G, O

### COLORS

Available in black, gray and white (standard colors)

Available in other wide variety of colors (customized)

### PACKAGING

BAIYUN SS511B Silicone Weather Proofing Sealant is available in 16.9 fl. oz. (500 ml) foil sausage packs.

### USABLE LIFE AND STORAGE

When stored at or below 27 °C (80 °F) in the original unopened containers, BAIYUN SS511B Silicone Weather Proofing Sealant has a usable life of 12 months from the date of manufacture.

### LIMITATIONS

BAIYUN SS511B Silicone Weather Proofing Sealant should not be used, applied or recommended:

- In structural glazing applications or where the sealant is intended as an adhesive.
- In areas where abrasion and physical abuse are encountered.
- In totally confined spaces as the sealant requires atmospheric moisture for cure.



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- On frost-laden or damp surfaces
- To building materials that bleed oils, plasticizers or solvents – materials such as impregnated wood, oil-based caulks, green or partially vulcanized rubber gaskets or tapes.
- On PMMA,PC substrates
- In below-grade applications
- On substrates made of polypropylene, polyethylene, polycarbonate and poly tetrafluoroethylene.
- Where movement capability greater than  $\pm 35\%$  is required.
- Where painting of the sealant is required, as the paint film may crack and peel
- For structural adhesion on bare metals or surfaces subject to corrosion (i.e., mill aluminum, bare steel, etc.)
- To surfaces in contact with food
- For use underwater or in other applications where the product will be in continuous contact with water

### **HANDLING AND SAFETY**

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE FROM BAIYUN SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING BAIYUN CUSTOMER SERVICE.

### **HOW TO USE**

Complete design and installation guidelines are contained in the BAIYUN Technical Manual when using this product.

### **HEALTH AND ENVIRONMENT INFORMATION**

For information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Material Safety Data Sheets containing physical, ecological toxicological and other safety-related data.

### **LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY**

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of using our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that the products of Guangzhou Baiyun Chemical Industry CO., LTD. are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

The warranty of Guangzhou Baiyun Chemical Industry CO., LTD. is that the product will meet the Guangzhou Baiyun Chemical Industry CO., LTD. sales specifications in



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effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchasing price or replacement of any product shown to be other than as warranted.

**GUANGZHOU BAIYUN CHEMICAL INDUSTRY CO., LTD. SPECIFICALLY  
DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF  
FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.  
GUANGZHOU BAIYUN CHEMICAL INDUSTRY CO., LTD. DISCLAIMS  
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