



# Guangzhou Baiyun Chemical Industry Co.,Ltd.

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Tel: +86-186 2018 6748 Email: [exporterr@china-baiyun.com](mailto:exporterr@china-baiyun.com) Website: [www.chinasealant.com](http://www.chinasealant.com)

## BAI YUN<sup>®</sup> SS821 Translucent Silicone Structural Sealant

### FEATURES

- Excellent structural bonding ability
- Odorless, non-corrosive curing system
- Neutral curing, high tensile strength, fast curing, Translucent.
- Excellent resistance to weather, the life is 50 years under usual weather;
- Remains flexible over a temperature range of -58° F(-50° C) to 302° F(150° C)
- Successfully tested for use in protective glazing applications
- Excellent adhesion to glass and ceramics.
- Good compatibility with other neutral silicone sealants

### COMPOSITION

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

### APPLICATIONS

- Glazing
- Sealing in glass joints
- Structural glazing in glass curtain wall
- Structural glazing in big glass and glass roof structural engineering

### TYPICAL PROPERTIES

Property	Result	Test method
<b>As Supplied</b>		
Color	Translucent	
Working Time	10-15 minutes	
Tack free time(23°C/73°F, 50% RH)	30-60minutes	ASTM C679
Curing Time	7-14 days	
Full curing	14-21days	
Flow, Sag or Slump	<0.1mm	ASTM C639
Specific Gravity	1.0g/cm <sup>3</sup>	ASTM D1875
VOC Content	<35g/L	
<b>As Cured-After 21days at 23°C/(73°F), and 50% RH</b>		
Durometer Hardness, Shore A	15-40	ASTM D2240
Ultimate Tensile Strength	0.80MPa	ASTM C1135
Ultimate Elongation	200%	ASTM C 1135
Tear Strength ,Die B	7500N/m	ASTM D624
Peel Strength	41ppi	ASTM C0794



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## As Cured-After 21days at 23°C/(73°F), and 50% RH followed by 5,000 hours in a QUV weatherometer, ASTM G53

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Tensile Strength, at 100% elongation	0.60 MPa	ASTM C1135
Ultimate Tensile strength, at break	1.10 MPa	ASTM C1135

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**Specifications:** Typical property data values should not be used as specifications. Assistance with specifications are available by contacting Guangzhou Baiyun Chemical Industry CO., LTD.

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## DESCRIPTION

BAIYUN SS821 Silicone Structural Sealant is a one-component, neutral curing translucent silicone sealant designed and tested for structurally glazing curtain wall applications. The material is supplied as a paste, which cures into an extremely tough elastomeric silicone rubber ensuring a durable, flexible, watertight bond upon exposure to atmospheric moisture.

## SPECIFICATIONS

BAIYUN SS821 Silicone Structural Sealant meets or exceeds the requirements of the following specifications for structural sealants.

Specifications:

- ASTM C1184, Type S, Use G and O

## COLORS

BAIYUN SS821 Silicone Structural Sealant is available in translucent.

## PACKAGING

BAIYUN SS821 Silicone Structural Sealant is available in 10.1 fl. oz. (300 ml) plastic caulking cartridges.

## USABLE LIFE AND STORAGE

When stored at or below 27°C (80°F) in the original unopened containers, this product has a usable life of 12 months from the date of manufacture.

## LIMITATIONS

SS821 Silicone Structural Sealant should not be used, applied or recommended:

- In structural glazing applications unless Guangzhou Baiyun Chemical Industry CO., LTD. has reviewed shop drawings for applicability and has performed adhesion and compatibility tests on project substrates, spacer materials and all accompanying accessories. Review and testing is done on a project-by-project basis. No blanket approval is given by Guangzhou Baiyun Chemical Industry CO., LTD. for structural glazing applications. Structural glazing industry guidelines (ASTM C1401) suggest that drawings and details are to be reviewed by all parties



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involved in the manufacture of an SSG system and for each building project.

- 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
- In totally confined spaces as the sealant requires atmospheric moisture for curing
- When surface temperatures below 10°C (50°F) or exceed 40°C (104°F)
- Where painting of the sealant is required, as the paint film may crack and peel
- In below-grade applications
- For use as an interior penetration fire stop sealing system
- In horizontal floor joints where abrasion and physical abuse are likely to be encountered
- To frost-laden or damp surfaces
- For structural adhesion on bare metals or surfaces subject to corrosion (i.e., mill aluminum, bare steel, etc.)
- For contact with strong acids or bases
- To surfaces in contact with food
- For continuous immersion in water
- This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

### **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 of our products are beyond our control, this information should not be used in substitution for customer's tests to



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