



Guangzhou Baiyun Chemical Industry Co.,Ltd.

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BAI YUN® SS521 Silicone Structural Sealant

Product Introduction:

- Structural and weather seal capability
- No unpleasant odor during curing,
- Non-corrosive curing system
- Excellent weather ability and high resistance to ultraviolet radiation, heat and humidity, ozone and temperature extremes
- 12-month shelf life, no lot matching of components
- Easy tooling, low VOC formula
- Excellent stability through wide temperature range: -58° F(-50° C) to 302° F(150° C)(fully cured)

Composition:

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

Application:

- Silicone structural glazing in curtain wall
- Structural attachment of many panel systems
- Protective glazing applications
- Panel stiffener applications

Typical Properties

Property	Result	Test method
As Supplied		
Working Time	10-20 minutes	
Tack free time(23°C/73°F, 50% RH)	30-60minutes	ASTM C679
Curing Time	7-14 days	
Full Adhesion	14-21days	
Flow, Sag or Slump	<0.1mm	ASTM C639
VOC Content	<30g/L	
As Cured-After 21days at 23°C/(73°F), and 50% RH		
Durometer Hardness, Shore A	45	ASTM C661
Ultimate Tensile Strength	1.10 MPa/3.21MPa	ASTM C1135/ISO527
Ultimate Elongation	260%/1011%	ASTM C 1135/ISO527
Tear Strength ,Die B	10kN	ASTM D624
Peel Strength	41ppi	ASTM C794
As Cured-After 21days at 23°C/(73°F), and 50% RH followed by 5,000 hours in a QUV weatherometer,ASTM G53		
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.

Applicable Standards:

- ASTM C1184, Type S, Use G and O
- GB 16776

Colors:

Black, gray and white (standard colors)

Other wide variety of colors (customized)

Package:

300ml cartridge and 500ml sausage.

Storage and shelf life:

12 months from the date of manufacture when stored at or below 27°C (80°F) in the original unopened containers.

Product limitation:

This product should not be used, applied or is not 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 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 cure
- 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



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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 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 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.

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