



Guangzhou Baiyun Chemical Industry Co.,Ltd.

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BAI YUN[®] SS628 Silicone Structural Sealant

FEATURES

- High strength
- Odorless, non-corrosive curing system
- Excellent weather ability and high resistance to ultraviolet radiation, heat and humidity, ozone and temperature extremes
- Remains flexible over a temperature range of -58° F(-50° C) to 302° F (150° C)
- Successfully tested for using in protective glazing applications
- 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

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

APPLICATIONS

- As a secondary edge adhesive sealant in insulating glass units.
- Structural attachment of many panel systems.
- Protective glazing applications
- Panel stiffener applications

TYPICAL PROPERTIES

Property	Result	Test method
Base-As Supplied		
Color	White	
Physical Form	Paste	
Specific Gravity	1.40g/cm ³	ASTM D1875
VOC Content	<2.5g/L	
Catalyst-As Supplied		
Color	Black	
Physical Form	Viscous Paste	
Specific Gravity	1.01 g/cm ³	ASTM D1875
VOC Content	<130g/L	
As catalyzed		
Color	Black	
Specific Gravity	1.35 g/cm ³	ASTM D1875
Working Time(Snap Time)	20-90minutes	



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Flow, Sag or Slump	<0.1mm	ASTM C639
Mix Ratio(By volume)	A:B = 9-11:1	
Recommend Mix Ratio(By volume)	A:B=10:1	
As cured - After 21 days at 23 °C (73 °F) and 50% RH		
Durometer Hardness, Shore A	42	ASTM D2240
Adhesion-in-Peel,Cohesive failure		
Aluminum	100%	ASTM C794
Glass	100%	ASTM C794
Ultimate Tensile Strength	0.90MPa	ASTM C 1135
Ultimate Elongation	250%	ASTM C 1135
Tear Strength ,Die B	7750N/m	ASTM D624
Structural Glazing Spec	Passes	ASTM C1135
Specifications: 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 SS628 Two Parts Silicone Structural Sealant is a two-component, high strength neutral curing silicone sealant designed and tested for glazing and structurally glazing curtain wall applications. Uncured, both the A and B components are thixotropic pastes and, when mixed, cure quickly to an extremely tough elastomeric silicone rubber and sealant at room temperature without primer adhesion to many substrates ensuring a durable, flexible, watertight bond

SPECIFICATIONS

BAIYUN SS628 Two Parts Silicone Structural Sealant meets or exceeds the requirements of the following specifications for two-part sealants.

Specifications:

- ASTM C1184, Type M, Use G and O
- China GB 16776

COLORS

A: White; B: Black; After Mixed: Black.

PACKAGING

Part A: Base

Part B: Catalyst

BAIYUN SS628 base and BAIYUN SS628 Catalyst are available separately:

Base: BAIYUN SS628 Base is available in 52 US gallon drum (containing ~47.6 US gallons (180 L)) with a polyethylene bag liner.

Catalyst: BAIYUN SS628 Catalyst is available in a 5.3-US gallon pail (containing



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~5.0 US gallons (19 L)

USABLE LIFE AND STORAGE

When stored at or below 27 °C (80 °F) in the original unopened containers, BAIYUN Catalyst and Base of SS628 Two Parts Silicone Structural Sealant has a usable life of 12 months from the date of manufacture.

LIMITATIONS

BAIYUN SS628 Two Parts Silicone Structural Sealant should not be applied:

- 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
- 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
- For water immersion applications.

Do not apply acid-curing (Acetoxy) silicone sealants to this product as this may cause loss of adhesion of SS628 Two Parts Silicone Structural Sealant to glass or other substrates used in the system.

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



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MATERIAL SAFETY DATA SHEET IS AVAILABLE FROM BAIYUN SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING BAIYUN CUSTOMER SERVICE.

HOW TO USE

BAIYUN SS628 Two Parts Silicone Structural Sealant, when used in structural applications, must be reviewed by BAIYUN technical service specialists.

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

METHOD OF APPLICATION

BAIYUN SS628 Two Parts Silicone Structural Sealant should be mixed and dispensed using two-component mixing equipment, which is available from several equipment manufacturers. These mixing pumping systems are specifically designed to meter precise proportions of A base and B catalyst, in an air-free environment, and mix and dispense material at proper pressures and volumes to insure thoroughly mixed air-free material.

BAIYUN SS628 Two Parts Silicone Structural Sealant should be mixed in a ratio from 12:1 to 14:1 base to Catalyst and Base by weight, or equivalent 9:1 to 11:1 by volume for optimal properties. At this ratio, the sealant typically exhibits a working time of 20-90 minutes.

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. 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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