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Guidance for use

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Company Profile

Guangzhou Baiyun Chemical Industry Co., Ltd. was established in 1985, which is the first silicone sealant research and production company in China. During this 34 years history, we always provide excellent silicone sealant solutions and service to our customers.

Baiyun mission: Dedicated to provide the best products for human

Baiyun strategic: To be the leader of the new chemical materials

Baiyun core values: Take the responsibility bravely; Create value, Share the achievement

Baiyun spirit: Solidarity; Pragmatic; High efficiency; Innovation



BAIYUN - the birth of "Hardcore"

- The first silicone construction sealant manufacturer in China;
- Responsible for drafting the first national standard for silicone structural sealants for construction

The first fully automatic and continuous production line of sealant with independent intellectual property rights in China; There are provincial-level technical centers, engineering technology research and development centers, as well as post-doctoral research stations and academician expert enterprise workstations.

The first production of ultra-high performance silicone sealant company in China

- The only one which was awarded the "Construction Silicone Sealant New Technology Industrialization Demonstration Base" in China by the Ministry of Construction.

Standard leading the world

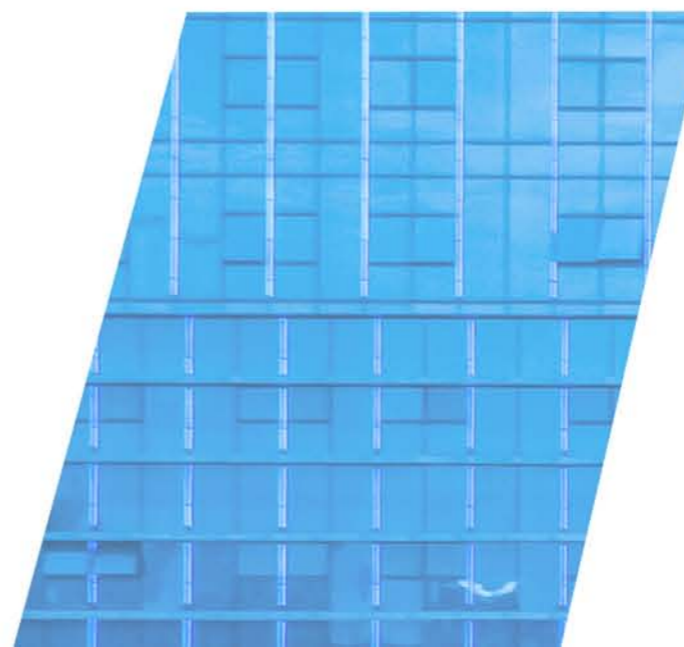
Participation the standards edit more than 150

- ▲ Formulated a product enterprise standard that is 1.5 times or more higher than the national standard;
- ▲ Participate in and draft the world's most advanced silicone structural sealant group standards;
- ▲ Undertake the ISO International Standardization Annual Meeting and represent the Chinese sealant industry on the international standardization stage for many times;

Intellectual property layout worldwide

Has more than 260 patents

- ▲ Baiyun Chemical Industry won the "China Patent Excellence Award" twice
- ▲ In 2014, it was rated as the first batch of "National Intellectual Property Advantage Enterprises".



History & Honor

- 1985** BAI YUN was set up in Guangzhou.
- 1997** BAI YUN in charge of writing the first China National Standard of silicone structural sealant. (GB16776-1997)
- 1999** It passed the ISO9001 Quality System Certification.
- 2002** It designed the China's first world class automatic continuous silicone sealant production line.
- 2003** It was the only enterprise in the sealant industry to win "Chinese Science and Technology Award".
- 2003** Post-doctoral research station was authorized to be set up in BAI YUN
- 2004** BAI YUN developed Super performance Structural sealant which the Tensile strength exceed 1.5Mpa, this broke the monopoly of Foreign Competitors.
- 2008** "BAI YUN" was awarded "International science and technology cooperation base" authorized by China national ministry of science and technology.
- 2008** "BAI YUN" became the "Top 100 private enterprise" in Guangdong province
- 2015** BAI YUN developed the green, intelligent, fully automatic production line which lead the production development in the world
- 2017** BAI YUN ranked the first on the public list for strategic supplier of good faith in China's real estate industrial chain.

GUANGZHOU BAIYUN CHEMICAL INDUSTRY CO.,LTD.
Building Sealant Industrialization Base of Ministry of Construction

Quality management



CNAS

1. The testing results are organized by the members of IAF and ILAC.
2. BAI YUN is the only silicone sealant manufacturer having CNAS approved laboratory which test capacity can cover the GB,ISO,ASTM and ETAG standard in China.



Quality management



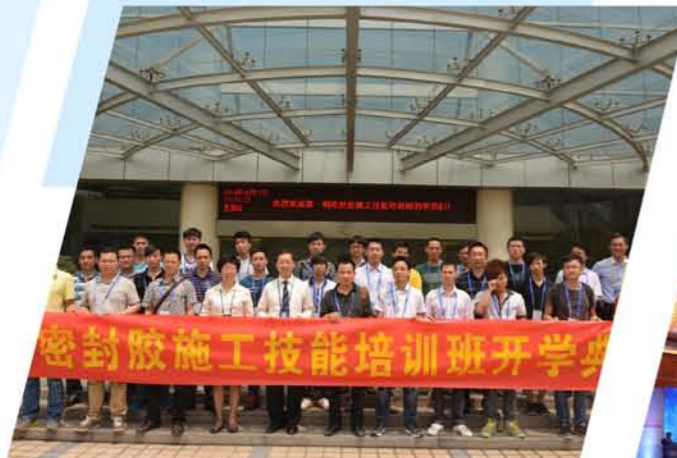
Quality management



Industry responsibility



Curtain Wall Security Application Forum



Sealant Application skill training



Industry responsibility

50-years Durability Research

Besides providing sealants, BAI YUN also focuses on studying durability Performance of Silicone Sealant.



This is a glass curtain wall for sealant durability test which was set up in 1997.



Xin Jiang Testing Center
(Continental Desert Climate)
Temperature: -28°C to 50°C
Highest Land temperature: 70°C



Guangzhou Testing Center
(Subtropical Climate)
High Humidity

American Testing Center (since 2017)

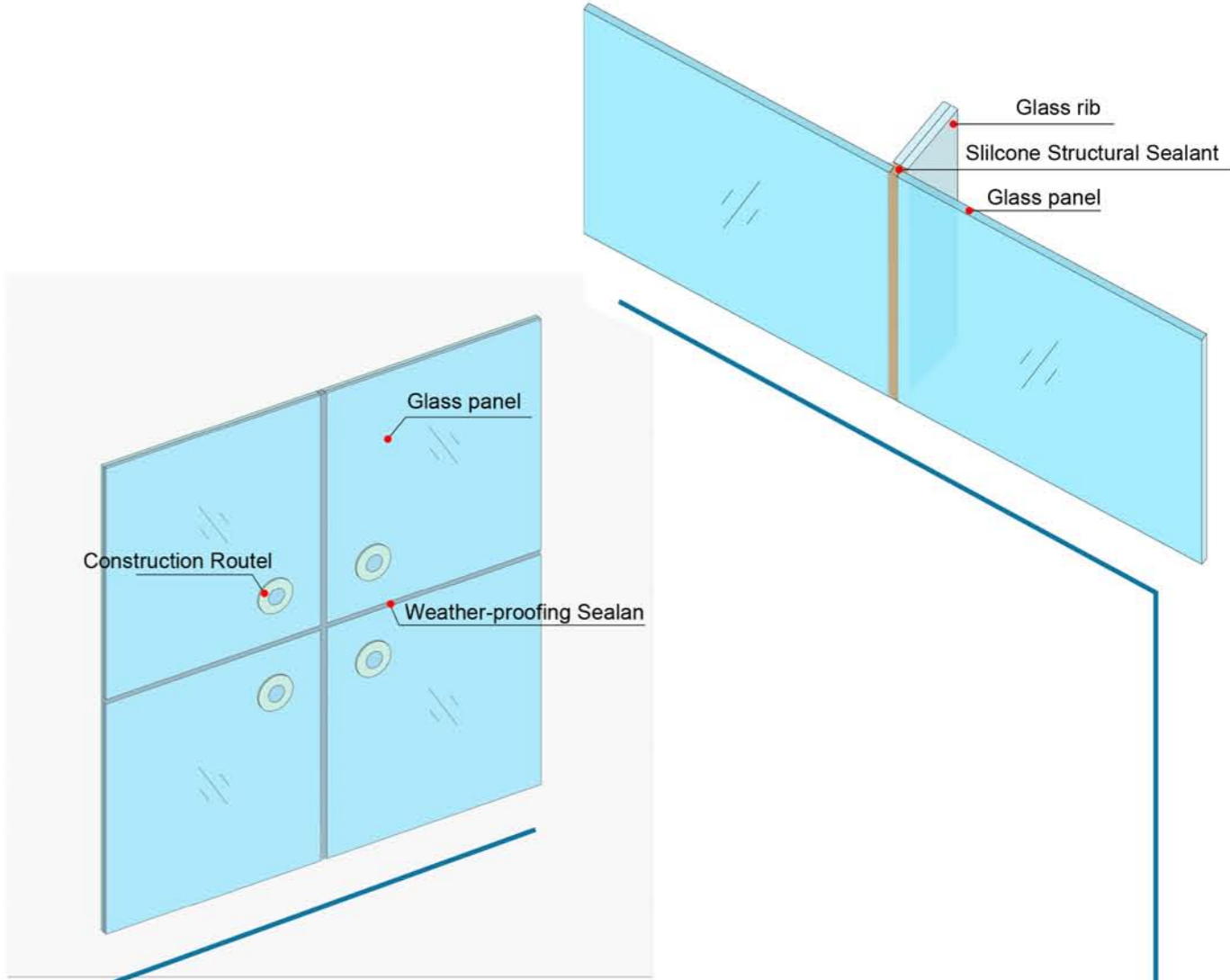


Q-Lab Florida Testing Center, US.
The largest outdoor high temperature and humidity aging test center in the world.



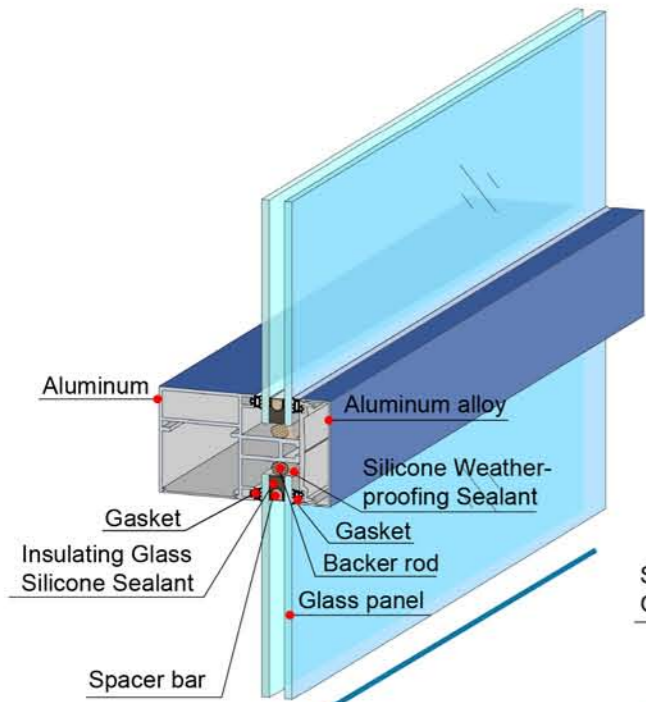
Arizona Testing Center, US.
The largest exposure desert center in the world.

Products Applications

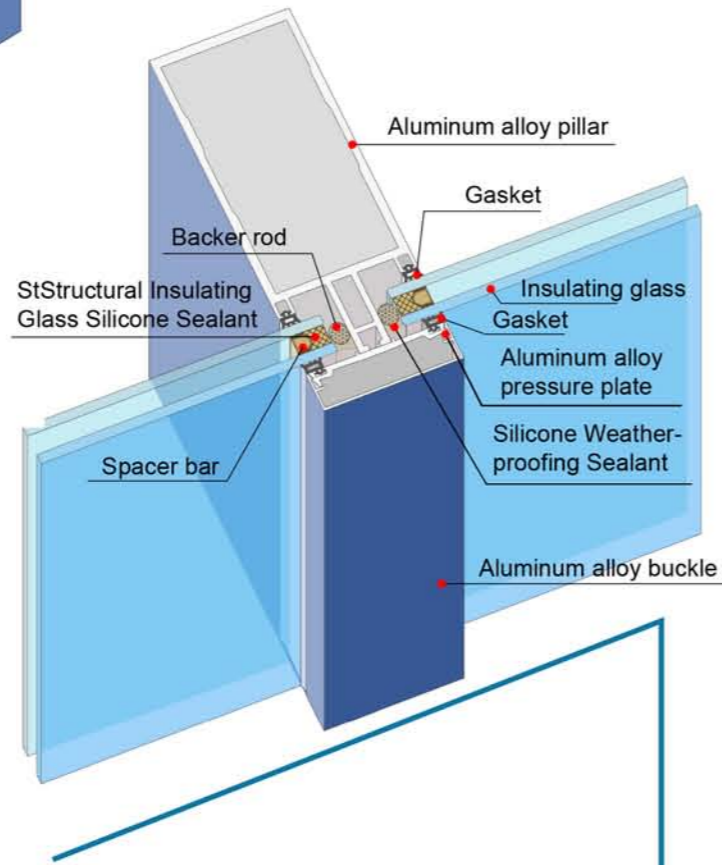


Point supported glass curtain wall system

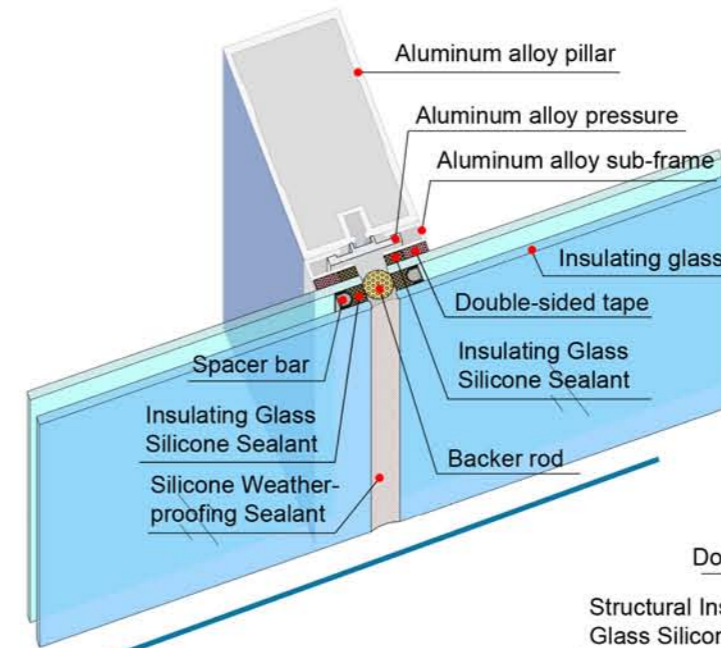
Full glass curtain wall system



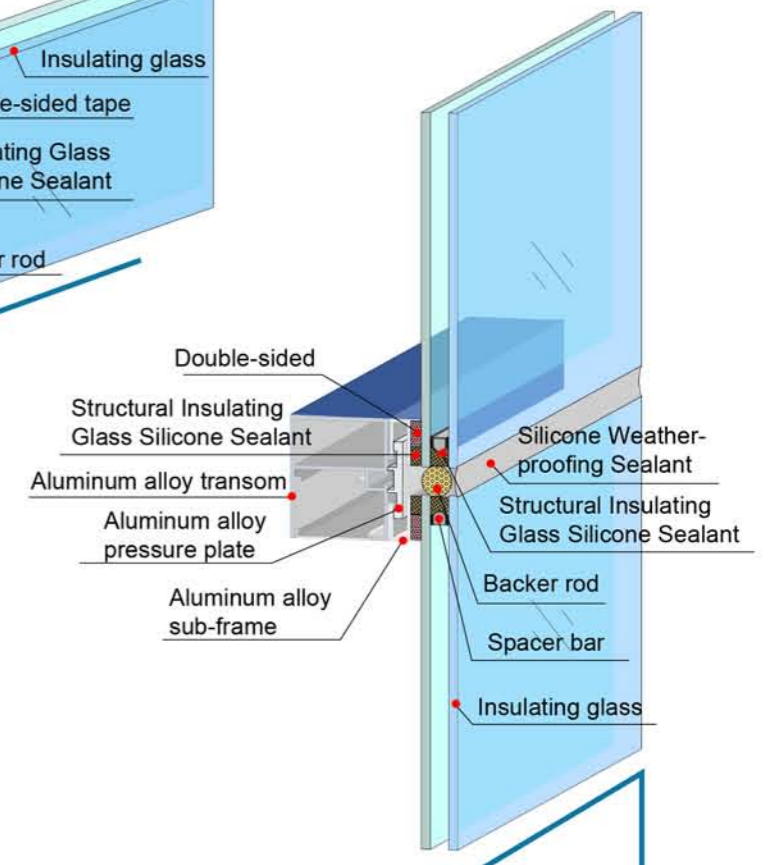
Exposed framing transom system



Exposed framing pillar system



Hidden framing pillar system



Hidden framing transom system

Products Introduction

Products Introduction

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

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

300 m cartridge and 590 m sausage

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	ASTM C1135
Ultimate Elongation	260%	ASTM C 1135
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
Specifications: Typical property data values should not be used as specifications. Assistance with specifications are available by contacting Guangzhou Baiyun Chemical Industry CO., LTD.		

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

Products Introduction

- 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 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.

Products Introduction

BAI YUN® SS621 High Performance Structural Silicone Sealant

Features

- Structural and weatherseal capability
- No unpleasant odor during curing,
- Non-corrosive curing system
- Excellent weatherability 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

Applications

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

Specifications

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

Colors

Black, gray and white (standard colors)
Other wide variety of colors (customized)

Package

300 mL cartridge and 590 mL sausage.

Typical properties

Property	Result	Test method
As Supplied		
Color	Black, gray, white	
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
Specific Gravity	1.34	ASTM D1475
VOC Content	<32g/L	
As Cured-After 21days at 23°C/(73°F), and 50% RH		
Durometer Hardness, Shore A	45	ASTM C661
Ultimate Tensile Strength	1.30MPa	ASTM C1135
Ultimate Elongation	300%	ASTM C 1135
Tear Strength ,Die B	11kN/m	ASTM D624
Peel Strength	43ppi	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	0.80 MPa	ASTM C1135
Ultimate Tensile strength,at break	1.20 MPa	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.		

Colors

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

Products Introduction

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 of Substrate 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
o 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.

Products Introduction

BAI YUN® SS628 Silicone Structural Sealant

Features

- High level of mechanic properties: High strength
- Non-corrosive curing system
- No unpleasant odor during curing.
- 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.

Specifications

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

Typical properties

Property	Result	Test method
Base-As Supplied		
Color	White	
Physical Form	Paste	
Specific Gravity	1.38g/cm ³	ASTM D1475
Catalyst-As Supplied		
Color	Black	
Physical Form	Viscous Paste	
Specific Gravity	1.04 g/cm ³	ASTM D1475
As catalyzed		
Color	Black	
Specific Gravity	1.35g/cm ³	ASTM D1475
Tooling Time(23°C/73°F, 50% RH)	10-20minutes	
Snap time (23°C/73°F, 50% RH)	20-70min	
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	
VOC Content	<40g/L	
As cured - After 21 days at 23°C (73°F) and 50% RH		
Durometer Hardness, Shore A	45	ASTM C661
Ultimate Tensile Strength	1.10MPa	ASTM C 1135
Ultimate Elongation	200%	ASTM C 1135
Tear Strength ,Die B	8 kN/m	ASTM D624

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

Colors

Part A(Base):: White; Part B(Catalyst): Black; After Mixed: Black.

Package

Part A(Base): 180 L drum

Part B(Catalyst): 19 L pail

Storage and shelf life

12 months from the date of manufacture when

Products Introduction

stored at or below 27°C (80°F) in the original unopened containers.

Product limitation

This product 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 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

Products Introduction

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.

BAI YUN® SS721 Big Glass Silicone Glazing Sealant

Features

- Good extrusion and thixotropy between 4°C ~+40°C. Easy to use;
- Acetoxy cure, fast curing, Translucent
- Excellent adhesion to glass and ceramics
- Excellent resistance to weather, , UV, ozone, water;
- Remains flexible over a temperature range of -58°F(-50°C) to 302°F(150°C)

Composition

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

Applications

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

Specifications

- ASTM C1184, Type S, Use G

Colors

Available in translucent.

Package

300 mL cartridge

Usable life and storage

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

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	<40g/L	
As Cured-After 21days at 23°C/(73°F), and 50% RH		
Durometer	20-60	ASTM C661
Hardness, Shore A		
Ultimate Tensile Strength	0.68MPa	ASTM C1135
Ultimate Elongation	100%	ASTM C 1135
Tear Strength ,Die B	5800N/m	ASTM D624
Peel Strength	36ppi	ASTM C794
Specifications: Typical property data values should not be used as specifications. Assistance with specifications are available by contacting Guangzhou Baiyun Chemical Industry CO., LTD.		

Limitations

This product should not be used, applied or is not recommended:

- For SSG system.
- For all kinds of material that can effuse grease, plasticizer or solvent;
- For the airproof location, because it is required to absorb water in air to cure for the sealant;
- For the frosty or moist surface;
- For the continually soggy or moist place;
- For metal and coated glass;
- For the alkaline materials like marble, granite etc;
- The product if the temperature is below 4°C or above 40°C on the surface of the materials.

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.

Products Introduction

BAI YUN® SS821 Silicone Structural Sealant (Translucent)

Features

- Excellent structural bonding ability
- No unpleasant odor during curing
- Non-corrosive curing system
- Neutral curing, high tensile strength, fast curing, Translucent
- Excellent resistance to 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

Specifications

- ASTM C1184, Type S, Use G and O

Colors

Available in translucent

Typical properties

Property	Result	Test method
As Supplied		
Color	Translucent	
Working Time	10-15 minutes	
Tack free time (23°C/73°F, 50% RH)	10minutes	ASTM C679
Curing Time	7-14 days	
Full curing	14-21days	
Flow, Sag or Slump	<0.1mm	ASTM C639
Specific Gravity	1.0g/cm ³	ASTM D1475
VOC Content	40-50g/L	
As Cured-After 21days at 23°C/(73°F), and 50% RH		
Durometer Hardness, Shore A	20-60	ASTM C661
Ultimate Tensile Strength	0.80MPa	ASTM C1135
Ultimate Elongation	200%	ASTM C 1135
Tear Strength, Die B	7500N/m	ASTM D624
Peel Strength	35ppi	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	0.56 MPa	ASTM C1135
Ultimate Tensile strength, at break	0.75 MPa	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.		

Package

300 mL cartridge

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 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 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.

Products Introduction

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.

Products Introduction

BAI YUN® SS511B Silicone Weather Proofing Sealant

Product Introduction

- Extension/compression movement capability of up to ±35% of the original joint width
- Suits applications in the areas with large difference in temperature and low humidity
- 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
- Remains flexible over a temperature range of -58°F(-50°C) to 302°F (150°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

Application

- 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
Uncured-As Tested at 23°C (73°F) and 50% RH		
Working time (23°C/73°F, 50% RH)	10-20minutes	
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	
As Cured-After 21 days at 23°C (73°F) and 50% RH		
Durometer Hardness, Shore A	25-45	ASTM C661
Peel Strength	29lb/in	ASTM
Joint Movement Capability	± 35%	ASTM C719
Tensile Adhesion Strength		
AT 25% extension	0.302MPa	ASTM C1135
AT 50% extension	0.469MPa	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.		

Specifications

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

Colors

Black, gray and white (standard colors)

Other wide variety of colors (customized)

Package

500 ml 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.

Products Introduction

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.

Product limitation

This product 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.
- 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 ±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

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

Products Introduction

BAI YUN® SS611-LM Silicone Weatherproofing Sealant For EU Glaze

Features

- Low modulus, high elasticity
- Extension/compression movement capability of up to +100/-50% of the original joint width
- Suits applications in the areas with large difference in temperature and low humidity
- No unpleasant odor during curing,
- 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°F(-50°C) to 302°F (150°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-cure
- 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
Uncured-As Tested at 23°C (73°F) and 50% RH		
Working time (23°C/73°F, 50% RH)	10-20minutes	
Tack-free time (23°C/73°F, 50% RH)	30-60 minutes	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	
As Cured-After 21 days at 23°C (73°F) and 50% RH		
Durometer Hardness, Shore A	25-40	ASTM C661
Peel Strength	31lb/in	ASTM C794
Joint Movement Capability	+100/-50%	ASTM C719
Tensile Adhesion Strength		
AT 25% extension	0.315MPa	ASTM C1135
AT 50% extension	0.481MPa	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.

Specifications

- ASTM C920; Type S, Grade NS, Class 100/50, Use NT, A, G, M, O

Colors

Black, gray and white (standard colors)
Other wide variety of colors (customized)

Package

300 mL cartridge and 590 mL sausage.

Storage and shelf life

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

Products Introduction

Product limitation

This product should not be used, applied or is not 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.
- 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.
- In below-grade applications
- On substrates made of polypropylene, polyethylene, polycarbonate and polytetrafluoroethylene.
- Where movement capability greater than +100/-50% 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.

How to use

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

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.

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.

Products Introduction

BAI YUN® SS811 High performance Silicone Weather-proofing Sealant

Features

- Extension/compression movement capability of up to ±50% of the original joint width
- Suits applications in the areas with large difference in temperature and low humidity
- 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
- Remains flexible over a temperature range of -58°F(-50°C) to 302°F (150°C)
- Excellent un-primed 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 and ACP curtain wall
- Many other uses

Typical properties

Property	Result	Test method
Uncured-As Tested at 23°C (73°F) and 50% RH		
Working time (23°C/73°F, 50% RH)	10-20minutes	
Tack-free time (23°C/73°F, 50% RH)	30-60 minutes	ASTM C679
Curing time (23°C/73°F, 50% RH)	7-14 days	
Flow, Sag or Slump	<0.1mm	ASTM C639
VOC Content	<38g/L	
As Cured-After 21 days at 23°C (73°F) and 50% RH		
Durometer Hardness, Shore A	20-45	ASTM C661
Peel Strength	30lb/in	ASTM C794
Joint Movement Capability	±50%	ASTM C719
Tensile Adhesion Strength		
AT 25% extension	0.312MPa	ASTM C1135
AT 50% extension	0.408MPa	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.		

Specifications

- ASTM C920; Type S, Grade NS, Class50, Use NT, A, G, M, O

Colors

Black, gray and white (standard colors)

Other wide variety of colors (customized)

Package

300 mL cartridge and 500 mL 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.

Products Introduction

Product limitation

This product 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.
- 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 ±50% 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.

How to use

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

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.

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.

Products Introduction

BAI YUN® SS818 Silicone Stain-Resistant Silicone Weather-Proofing Sealant

Features

- Non-staining on natural stones and reduces residue rundown on metal and glass panels.
- Extension/compression movement capability of up to ±50% of the original joint width
- 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
- Remains flexible over a temperature range of -58°F (-50°C) to 302°F (150°C)
- Excellent un-primed adhesion to wide range of substrates including coated, enameled and reflective glasses, anodized and polyester coated or painted aluminum profiles
- 10-year Limited Weather seal and Non-Staining Warranties are available

Composition

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

Applications

- Joint weather sealing of glass curtain wall
- Weather sealing in metal, enamel curtain wall joints
- No-staining for porous materials, e.g. concrete, cement, stone, etc.
- Minimize residence rundown streaking

Specifications

- ASTM C920; Type S, Grade NS, Class 50, Use NT,

- A, G, O
- ASTM C1248

Typical properties

Property	Result	Test method
As Supplied		
Tack free time (23°C/73°F, 50% RH)	55 minutes	ASTM C679
Full Adhesion	14-21 days	
Flow, Sag or Slump	<0.1mm	ASTM C639
Working Time	10-15 minutes	
Specific Gravity	1.34	ASTM D1475
VOC Content	<40g/L	
As Cured-After 7 days at 23°C (73°F) and 50% RH		
Ultimate Tensile Strength	1.7MPa	ASTM D412
Ultimate Elongation	990%	ASTM D412
As Cured-After 21 days at 23°C (73°F) and 50% RH		
Durometer Hardness, Shore A	42	ASTM C661
Joint Movement Capability	±50%	ASTM C719
Ultimate Tensile Strength	0.75MPa	ASTM C1135
Ultimate Elongation	480%	ASTM C 1135
Staining and migration: natural stone	None	ASTM C1248

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

Colors

Black, gray and white (general colors)
Other wide variety of colors (customized)

Package

300 mL cartridge and 590 mL sausage.

Storage and shelf life

12 months from the date of manufacture when

Products Introduction

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.

Product limitation

This product 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.
- 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.
- In below-grade applications
- On substrates made of polypropylene, polyethylene, polycarbonate and poly tetrafluoroethylene.
- Where movement capability greater than ±50% 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

Products Introduction

BAI YUN® SSS602D Epoxy Adhesive For Dry-fixing Stone

FEATURES

- High modulus, High strength
- Fast curing and no flow
- Non-corrosive to metal, concrete, glass,marble, granite
- Pollution-free to stone,Excellent weatherability

COMPOSITION

- Two-part
- Epoxy resin adhesive

APPLICATIONS

- Adhesion and sealing in expansion joint for stone,metal,glass and concrete etc
- Adhesion and sealing in expansion joints for stone curtain wall of dry-fixing and metal pieces
- Adhesion and sealing in expansion joint for floor tile and ceramic tile
- Planting reinforcement, reinforced structure, joint reinforcement

TYPICAL PROPERTIES

Property	Result	Test method
As catalyzed		
Working Time(23°C/73°F, 50% RH)	36minutes	GB/T12594
As cured - After 21 days at 23°C (73°F) and 50% RH		
Flexural Modulus	7080 MPa	GB/T2570
Impact Strength	13.5 kJ/m ²	GB/T2571
Tensile-Shear Strength, (stainless steel—stainless steel)	≥10.3MPa	GB/T7124
Press-Shear Strength		JC/T547
Marble—Stainless Steel (23°C/73°F, 50% RH, 48h)	20.7MPa	
Marble—Marble (23°C/73°F, 50% RH, 48h)	18.9MPa	
Marble—Marble (Immersion, 168h)	11.6MPa	
Marble—Marble(80°C, 168h)	14.1MPa	
Marble—Marble (freeze-thaw cycles, 50times)	8.2 MPa	

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

COLORS

Part A(Base):: White; Part B(Catalyst): Yellow; After Mixed: Pale Yellow.

PACKAGING

Part A(Base): 12 kg drum
Part B(Catalyst): 12 kg drum

USABLE LIFE AND STORAGE

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

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

BAIYUN SSS602D Epoxy Adhesive,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.

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.

Products Introduction

Product limitation

This product 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.
- 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.
- In below-grade applications
- On substrates made of polypropylene, polyethylene, polycarbonate and poly tetrafluoroethylene.
- Where movement capability greater than ±50% 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.

Products Introduction

BAI YUN® SS550 Neutral Silicone Sealant

Features

- Apply at the temperature between 4-40°C. Easy to operate
- Neutral curing, non-corrosive curing system
- No unpleasant odor during cure
- Excellent resistance to weather, UV, ozone, water
- Good adhesion to most common building material without priming
- Good compatibility with other neutral silicone sealants

Composition

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

Application

- Sealing joints for all types of doors and windows
- Sealing in joints of glass, metal, concrete and etc
- Many other uses

Applicable Standards

- GB/T 22083 Class 12.5
- ISO11600-F-12.5E
- ASTM C920; Type S, Grade NS, Class 12.5, Use NT, A, G, M, O

Colors

Black, gray and white (standard colors)
Other wide variety of colors (customized)

TYPICAL PROPERTIES

Property	Result	Test method
Uncured-As Tested at 23°C (73°F) and 50% RH		
Specific Gravity	1.50	ASTM D1475
Working time (23°C/73°F, 50% RH)	10-20minutes	
Tack-free time (23°C/73°F, 50% RH)	60 minutes	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	
As Cured-After 21 days at 23°C (73°F) and 50% RH		
Durometer Hardness, Shore A	20-60	ASTM C661
Peel Strength	28lb/in	ASTM C794
Joint Movement Capability	±12.5%	ASTM C719
Tensile Adhesion Strength		
AT 25% extension	0.275MPa	ASTM C1135
AT 50% extension	0.468MPa	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.		

Package

300 m cartridge and 590 ml 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 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.
- 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.
- In below-grade applications.
- On concrete and cement substrates.
- On substrates made of polypropylene, polyethylene, polycarbonate and poly tetrafluoroethylene.
- Where movement capability greater than ±12.5% 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.

Products Introduction

How to us

Complete design and installation guidelines are contained in the BAI YUN 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.

Products Introduction

BAI YUN® SS850 Neutral Silicone Sealant

Features

- Good extrusion and thixotropy between 4°C ~+40°C. Easy to use
- Neutral curing, non-corrosive curing system
- No unpleasant odor during curing
- Excellent resistance to weather, UV, ozone, water
- Good adhesion to most common building material
- Good compatibility with other neutral silicone sealants

Composition

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

Application

- Sealing gaps or joints of doors and windows
- Sealing joints
- Many other uses

Specifications

- ASTM C920; Type S, Grade NS, Class 12.5, Use NT, A, G, M, O

Colors

Black, gray and white (standard colors)
Other wide variety of colors (customized)

Package

300 mL cartridge and 500 mL sausage

Typical properties

Property	Result	Test method
Uncured-As Tested at 23°C (73°F) and 50% RH		
Specific Gravity	1.5	ASTM D1475
Working time(23°C/73°F, 50% RH)	10-20minutes	
Tack-free time(23°C/73°F, 50% RH)	30-60 minutes	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	
As Cured-After 21 days at 23°C (73°F) and 50% RH		
Durometer Hardness, Shore A	20-60	ASTM C661
Peel Strength	28lb/in	ASTM C794
Joint Movement Capability	±12.5%	ASTM C719
Tensile Adhesion Strength		
AT 25% elongation	0.175MPa	ASTM C1135
AT 50% elongation	0.268MPa	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.		

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 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 thesealant requires

Products Introduction

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.

atmospheric moisture for cure.

- 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.
- In below-grade applications
- On substrates made of PP, PE, PC, PMMA and PTFE.
- Where movement capability greater than ±12.5% 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.
- New concrete must be allowed to cure and dry for at least 7 days of good drying weather.

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 us

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

BAI YUN® SS528 Insulating Glass Structural Silicone Sealant

Features

- Structural capability as a secondary sealant for insulating glass units
- High level of mechanic properties: high modulus, high strength
- Fast curing, successfully tested for using in protective glazing applications
- 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
- Remains flexible over a temperature range of -58°F (-50°C) to 302°F (150°C)
- Good compatibility with other neutral silicone sealants

Composition

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

Application

- Sealing secondary edge of insulating glass in structural glazing applications

Specifications

- SASTM C1369
- EN1279-4

Colors

Part A(Base): White; Part B(Catalyst): Black; After Mixed: Black.

TYPICAL PROPERTIES

Property	Result	Test method
Base-As Supplied		
Color	White	
Physical Form	Paste	
Specific Gravity	1.38g/cm ³	ASTM D1475
Catalyst-As Supplied		
Color	Black	
Physical Form	Viscous Paste	
Specific Gravity	1.04 g/cm ³	ASTM D1475
As catalyzed		
Color	Black	
Specific Gravity	1.35g/cm ³	ASTM D1475
Tooling Time (23°C/73°F, 50% RH)	10-20minutes	
Snap time (23°C/73°F, 50% RH)	20-70mim	
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	
VOC Content	<40g/L	
As cured - After 21 days at 23°C (73°F) and 50% RH		
Durometer Hardness, Shore A	45	ASTM C661
Ultimate Tensile Strength	1.0MPa	ASTM C 1135
Ultimate Elongation	170%	ASTM C 1135
Water Vapor Permeability	17.5g/m ² /24h	EN1279

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

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 is neither tested nor represented as suitable for medical or pharmaceutical uses.

Package

Part A(Base): 180 L drum

Part B(Catalyst): 19 L pail

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

BAIYUN SS528 Insulating Glass 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.

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.

BAIYUN® SS616 Insulating Glass Silicone Sealant (Non Structural)

Features

- The curing speed can be adjustable, and the deep-seated curing speed is fast, and it is suitable to be used in the factory;
- Neutral curing, non-corrosive to metal, coated glass etc.
- High modulus and high strength
- No unpleasant odor during curing
- Excellent resistance to weather, UV, ozone, water;
- Remains flexible over a temperature range of -58°F(-50°C) to 302°F(150°C);
- 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

Specifications

- EN1279-4

How to use

BAIYUN SS616 Insulating Glass Sealant, when used in non 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.

TYPICAL PROPERTIES

Property	Result	Test method
Base-As Supplied		
Color	White	
Physical Form	Paste	
Specific Gravity	1.48g/cm ³	ASTM D1475
Catalyst-As Supplied		
Color	Black	
Physical Form	Viscous Paste	
Specific Gravity	1.04g/cm ³	ASTM D1475
As catalyzed		
Color	Black	
Specific Gravity	1.42g/cm ³	ASTM D1475
Tooling Time (23°C/73°F, 50% RH)	10-20minutes	
Snap time (23°C/73°F, 50% RH)	20-70mim	
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	
VOC Content	<40g/L	
As cured - After 21 days at 23°C (73°F) and 50% RH		
Durometer Hardness, Shore A	48	ASTM C661
Ultimate Tensile Strength	0.9MPa	ASTM C 1135
Ultimate Elongation	110%	ASTM C 1135
Water Vapor Permeability	15.1g/m ² /24h	EN1279
Specifications: Typical property data values should not be used as specifications. Assistance with specifications are available by contacting Guangzhou Baiyun Chemical Industry CO., LTD.		

Colors

Part A(Base)::White; Part B(Catalyst): Black;
After Mixed: Black

Package

Part A(Base): 180 L drum
Part B(Catalyst): 19 L pail

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 recommended:

- In structural glazing applications.
- 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 4°C (39.2°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 SS616 Insulating Glass 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 material safety data sheet is available from baiyun sales application engineer, or distributor, or by calling baiyun customer service.

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.

BAI YUN® SMP551 Silane Modified Polyether Sealant

Features

- Environmental friendly: low VOC, nonpoisonous, no staining or corrosion to substrate.
- Paintable: can be painted with most coatings, outstanding compatibility.
- Excellent workability: single component, good extrusion between 4~40°C, very easy to tool.
- Outstanding adhesion: bond to most construction materials. Better use primer.
- Movement Capability: ±12.5%, exhibit stable performances during normal shape change from stretch and shearing of joint inside the constructions.
- Excellent physical properties: Excellent weather resistance, excellent resistance to aging.

Applications

- Sealing joints between aluminum frame and concrete;
- Sealing the gaps for internal or external windows walls.

Storage and shelf life

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

Package

500 mL sausage

Color

Black, gray and white (standard colors)

Technical characteristics

Property	Result	Test method
Color	White, black, grey	
Curing System	Moisture cure	
Service Temperature (°C)	-40~80	
Tack-free time(min)	≤180	ASTMC679
Curing Rate(mm/24hr)	3	
Specific Gravity(g/cm ³)	1.50~1.70	ASTM
Durometer Hardness (Shore A)	25~45	ASTM C661
Tensile Strength(MPa)	≥0.9	ASTM D412
Elongation at break (%)	≥350	ASTM D412
Joint Movement Capacity (%)	±12.5	ASTM C719
Shelf Life(month)	9	

Product limitation

should not be used, applied or not recommended:

- In conditions above 80°C.
- In structural glazing applications.
- In totally confined spaces as the sealant requires atmospheric moisture for cure.
- In applications for immersion or always wet conditions.
- On substrates that can extrude grease, plasticizer or solvent.
- On substrates made of polypropylene, polyethylene and polytetrafluoroethylene.

Technical services

Complete technical data and adhesion/compatibility tests are available from Guangzhou Baiyun Chemical Industry CO., LTD.

Staining test service is also provided for clients. Clients can send the substrates to us by e-mail(or

other ways), then we will carry out the staining test and give the test report.

Repairs

Repairs should not be needed in ordinary situations. If sealant is damaged and needs repairs, please remove damaged parts and clean surfaces with isopropyl alcohol, then seal the damaged region with this product. SMP551 silane modified polyether sealant can firmly bond to cured silane modified polyether sealant.

Directions for use

Before embarking on any work involving SMP551 silane modified polyether sealant for precast concrete building, the safety data sheet should be carefully studied by those carrying out the work.

1. All surfaces must be structurally sound, clean, dry and free of oil, grease, asphalt, and any loose particles.
2. This product is strongly suggested to use primer PR103 before apply the sealant.
3. Mask adjacent surfaces. Install approved backing material where necessary.
4. Cut the nozzle to the required diameter. Apply sufficient sealant into joint sides to ensure complete contact
5. Tool in 10 minutes. Remove masking immediately after tooling.
6. Keep good ventilation during construction and cure.
7. To confirm optimum adhesion on either a porous or nonporous surface, adhesion testing should always be carried out prior to the commencement of any project and be carried out at regular intervals during the project.

Cautions

Avoid eye contact with uncured sealant, especially children. In case of eye contact, flush eyes with water or obtain medical attention immediately.

Standard ASTM C920

Products Introduction

BAI YUN® SMP651 Silane Modified Polyether Sealant For Prefabricated Construction

Features

- Environmental friendly: low VOC, nonpoisonous, no staining or corrosion to substrate.
- Paintable: can be painted with most coatings, outstanding compatibility.
- Excellent workability: single component, good extrusion between 4~40°C, very easy to tool.
- Outstanding adhesion: bond to most construction materials without primes.
- Movement Capability: ±25%, exhibit stable performances during normal shape change from stretch and shearing of joint inside the constructions.
- Excellent physical properties: Excellent weather resistance, excellent resistance to aging.

Applications

- Sealing of building joints or cracks for indoors decoration(ceiling, kitchen, windows, walls).

Product limitation

This product should not be used, applied or not recommended:

- In conditions above 80°C.
- In structural glazing applications.
- In totally confined spaces as the sealant requires atmospheric moisture for cure.
- In applications for immersion or always wet conditions.
- On substrates that can extrude grease, plasticizer or solvent.
- On substrates made of polypropylene, polyethylene and polytetra fluoroethylene.

Technical characteristics

Property	Result	Test method
Tack-Free Time(min)	30~60	ASTM C679
Specific Gravity(g/cm ³)	1.40~1.60	ASTM
Hardness(Shore A)	10~30	ASTM C661
Joint Movement Capacity(%)	±25	ASTM C920
Adhesion and Cohesion under Cyclic Movement	No failure	ASTM C719
Adhesion-in-Peel	Use Aluminium Peel strength	122N
	Use Mortar Peel strength	114.5N
Adhesion-in-Peel Exposed to UV (200h)	Use Glass Peel strength	109.8N
Effects of Accelerated Weathering (250h)	Appearance	No cracks
	Bend test (-26°C)	No cracks
Shelf Life(month)	12	ASTM C793

Technical services

Complete technical data and adhesion/compatibility tests are available from Guangzhou Baiyun Chemical Industry CO., LTD.

Staining test service is also provided for clients. Clients can send the substrates to us by mail(or other ways), then we will carry out the staining test and give the test report.

Storage and shelf life

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

Repairs

Repairs should not be needed in ordinary situations. If sealant is damaged and needs repairs, please remove damaged parts and clean surfaces with

Products Introduction

isopropyl alcohol, then seal the damaged region with this product. SMP651 silane modified polyether sealant for prefabricated construction can firmly bond to cured silane modified polyether sealant.

Package

590 mL sausage

Color

Black, gray and white (standard colors)
Other wide variety of colors (customized)

Directions for use

Before embarking on any work involving SMP651 silane modified polyether sealant for prefabricated construction, the safety data sheet should be carefully studied by those carrying out the work.

1. All surfaces must be structurally sound, clean, dry and free of oil, grease, asphalt, and any loose particles.
2. Mask adjacent surfaces. Install approved backing material where necessary.
3. Cut the nozzle to the required diameter. Apply sufficient sealant into joint sides to ensure complete contact
4. Tool in 10 minutes. Remove masking immediately after tooling.
5. Keep good ventilation during construction and cure.
6. To confirm optimum adhesion on either a porous or nonporous surface, adhesion testing should always be carried out prior to the commencement of any project and be carried out at regular intervals during the project.

Cautions

Avoid eye contact with uncured sealant, especially children. In case of eye contact, flush eyes with water or obtain medical attention immediately.

Standard

ASTM C920 Class 25

BAI YUN® HD200 LIQUID NAIL

Product Introduction

HD200 Liquid nail is a solvent-free adhesive which is designed to replace the nail, with high bond strength, a wide range of bonding materials, green and other characteristics, particularly suitable for fixed connections between wood, ceramic tiles, stone, concrete, metal and plastic materials, instead of nailing and drilling, and no damage to the wall, no noise and dust pollution during application.

TYPICAL PROPERTIES

Property	Result	Test method
Uncured-As Tested at 23°C (73°F) and 50% RH		
Tack-free time (23°C/73°F, 50% RH)	10 minutes	ASTM C679
VOC Content	<15g/L	
As Cured-After 21 days at 23°C (73°F) and 50% RH		
Durometer Hardness, Shore A	50	ASTM C661
Shear Strength	1.2MPa	
Tensile Strength	2.0MPa	ASTM D412
Elongation at break	250%	ASTM D412
Service temperature	-40°C~+80°C	
Specifications: Typical property data values should not be used as specifications. Assistance with specifications are available by contacting Guangzhou Baiyun Chemical Industry CO., LTD.		

Application

- Suitable for bonding & fixing a variety of wood, wood flooring, wood wall panels, door lines, plaster lines, skirting, all kinds of decorative pendants and various decoration projects
- Applicable to bond and fix a various types of materials such as boards & panels, calligraphy and painting, signs, acrylic, fiberglass, metal, particle-board, plasterboard, etc;
- Suitable for professionals and home DIY

Instructions

- Clean the joint surface to ensure clean, dry, sound, and free of dust, oil or contamination .
- Cut tip off cartridge, put on nozzle and load into cartridge gun. Cut nozzle tip to a 5mm diameter hole (or desired size). Squeeze trigger and apply .
- Apply the Adhesive in points, strips or in shape of "Z" on the substrates, press firmly into position and brace until set.; if bonding heavy objects, clamp and other tools should be used to clamp the surface to be fixed, and then remove the fixing tools after 24 hours.
- The Adhesive forms a thin skin in 1-5 minutes depending on air temperature. Cure time is about 1-7 days, depending on temperature, porosity of substrate, bonding area and ventilation.
- Cure via reaction from moisture in the air .

Precautions

- The joint design must allow the sealant exposure to air so that it can cure and obtain its ultimate physical properties. And the application environment need to be open and be well ventilated.
- Keep out of the reach of children
- Use up the product as soon as possible after opening;
- Do not apply at the environment with temperatures exceed 80°C nor below 5°C or immersion for a long time;
- Not suitable for loose or not solid surface;
- Uncured products should not touch the eyes, such as accidental contact, please wash with plenty of water and promptly seek medical advice.

NET VOLUME: 300mL

SHELF LIFE: 12 Months from the Date of Manufacture

APPLICABLE STANDARDS: Q/BYHG 2

BAIYUN® DJ-A3-SS607 Firestop Silicone Sealant

Product Introduction

- Outstanding flame resistance, V-0;
- No fume and toxic gas released on fire;
- Good extrusion and thixotropy between 4°C ~+40°C . Easy to use;
- Neutral curing, non-corrosive to metal, coated glass etc;
- Excellent resistance to weather, UV, ozone, water;
- Remains flexible over a temperature range of -58°F (-50°C) to 302°F(150°C)
- Good adhesion to most common material;
- Good compatibility with other neutral silicone sealants.

Composition

One-part, neutral-curing
RTV silicone sealant

Application

- Flame resistance waterproof and moistureproof sealing for hotel, theatre and other public places;
- Glazing for all kinds of flame resistant windows and doors;
- Flame resistance Joint sealing for curtain wall fire resistant system;
- Flame resistance sealing for electronic installation;
- Many other industrial uses.

Colors

Black, gray and white (standard colors)
Other wide variety of colors (customized)

Applicable Standards

- GB 23864

Typical Properties

Property	Result	Test method
Uncured-As Tested at 23°C (73°F) and 50% RH		
Working time (23°C/73°F, 50% RH)	10-20minutes	
Tack-free time (23°C/73°F, 50% RH)	20-60 minutes	GB/T13477
Curing time (23°C/73°F, 50% RH)	7-14 days	
Flow, Sag or Slump	<0.1mm	GB/T13477
As Cured-After 21 days at 23°C (73°F) and 50% RH		
Durometer Hardness, Shore A	50-60	GB16776
Joint Movement Capability	±7.5%	GB/T13477
Flame Resistant	A3	GB 23864
Specifications: Typical property data values should not be used as specifications. Assistance with specifications are available by contacting Guangzhou Baiyun Chemical Industry CO., LTD.		

Package

300 mL cartridge.

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 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 thesealant requires

Products Introduction

atmospheric moisture for cure.

- 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.
- In below-grade applications.
- On concrete and cement substrates.
- On substrates made of polypropylene, polyethylene, polycarbonate and polytetrafluoroethylene.
- Where movement capability greater than $\pm 7.5\%$ 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

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.

Products Introduction

BAI YUN® SS608 Anti-Mildew Silicone Sealant

Features

- Outstanding anti-mildew property.
- SS608 Silicone Anti-Mildew Sealant belongs to RTV-1. Good extrusion and thixotropy between $4\text{ }^{\circ}\text{C} \sim +40\text{ }^{\circ}\text{C}$. Easy to use.
- Neutral curing, non-corrosive to metal, coated glass, concrete, marble, granite etc.
- No unpleasant odor during curing.
- Excellent resistance to weather, UV, ozone, water.
- Remains flexible over a temperature range of $-58\text{ }^{\circ}\text{F} (-50\text{ }^{\circ}\text{C})$ to $302\text{ }^{\circ}\text{F} (150\text{ }^{\circ}\text{C})$;
- Excellent adhesion to most common building material.
- Good compatibility with other neutral silicone sealants.

Composition

- Waterproof anti-mildew sealing;
- Sealing joints of glass, marble, stone, etc. in kitchen, washing room, balcony, etc.
- Sealing joints in high humidity environment
- Perimeter glazing for windows and doors.

Colors

Black, gray and white (standard colors)
Other wide variety of colors (customized)

Specifications

- ASTM C920; Type S, Grade NS, Class 12.5, Use NT, A, G, M, O
- ASTM G21
- GB/T1741

TYPICAL PROPERTIES

Property	Result	Test method
Uncured-As Tested at 23°C (73°F) and 50% RH		
Working time (23°C/73°F, 50% RH)	10-20 minutes	
Tack-free time (23°C/73°F, 50% RH)	20-60 minutes	ASTM C679
Curing time (23°C/73°F, 50% RH)	7-14 days	
Flow, Sag or Slump	<0.1mm	ASTM C639
VOC Content	<37g/L	
As Cured-After 21 days at 23°C (73°F) and 50% RH		
Durometer Hardness, Shore A	25-50	ASTM C661
Ultimate Tensile Strength	0.95MPa	ASTM C1135
Ultimate Elongation	200%	ASTM C1135
Joint Movement Capability	$\pm 12.5\%$	ASTM C719
Anti-Mildew	None	ASTM G21
Specifications: Typical property data values should not be used as specifications. Assistance with specifications are available by contacting Guangzhou Baiyun Chemical Industry CO., LTD.		

Package

300 mL cartridge

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 recommended:

- In structural glazing applications or where the sealant is intended as an adhesive.
- In areas where abrasion and physical abuse are encountered.