



AGS-PHILS BUILDING MATERIALS INC.

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BAI YUN



BAI YUN[®] SS811E 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		
Extrusion rate	260 g/min	
Working time (23°C/73°F, 50% RH)	10-15 minutes	
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	< 60 g/L	
Uncured-As Tested at 23°C (73°F) and 50% RH		
Durometer Hardness, Shore A	30-45	ASTM C661
Peel Strength	6N/mm	ASTM C794
Elastic Recovery	94%	
Joint Movement Capability	±50%	ASTM C719
Elongation at Break	400%	ASTM C1135
Tensile Adhesion Strength		
AT 25% extension	0.453MPa	ASTM C1135
AT 50% extension	0.608 MPa	ASTM C1135
AT 100% extension	0.822 MPa	ASTM C1135
Ultimate Tensile Strength	1.2 MPa	ASTM C1135
Tensile strength	2.0 MPa	ASTM D412
Elongation at break	700%	ASTM D412
Weight Loss	3.4%	ASTM C1246
Specifications: Typical property data values should not be used as specifications. Assistance with specifications are available by contacting Guangzhou Baiyun Technology CO., LTD.		

Specifications

- ASTM C920; Type S, Grade NS, Class50, Use NT, A, G, M, O
- ISO 11600 class 25

Colors

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

Package

300ml 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.



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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 $\pm 50\%$ 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.