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## **BAIYUN<sup>®</sup> SMP551 Silane Modified Polyether Sealant**

### **Product description**

SMP551 silane modified polyether sealant is for sealing joints between aluminum frame and concrete, which is mid modulus, neutral, elastic, single component sealant, it has many applications doors and windows fields, including joint or crack sealing, construction material bonding, etc. It is environmental friendly without hazardous or harmful substance, and has excellent adhesion to most construction or synthetic materials, such as aluminum, marble, granite, concrete, etc.

### **Characteristics**

- ◆ **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:**  $\pm 12.5\%$ , 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.

### **Fields of applications**

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

### **Technical characteristics**

<b>Property</b>	<b>Result</b>	<b>Test method</b>
Color	White, black, grey	
Curing System	Moisture cure	
Service Temperature (°C)	-40~80	
Tack-free time(min)	$\leq 180$	ASTM C920-11&ASTM C679-03(2009)
Curing Rate(mm/24hr)	3	
Specific Gravity(g/cm <sup>3</sup> )	1.50~1.70	ASTM D1875
Durometer Hardness (Shore A)	25~45	ISO 7619-1: 2004
Tensile Strength(MPa)	$\geq 0.9$	ISO 37: 2005



## Guangzhou Baiyun Chemical Industry Co.,Ltd.

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Tel: +86-20-37312985 Email: [exporter@china-baiyun.com](mailto:exporter@china-baiyun.com) Website: [www.chinasealant.com](http://www.chinasealant.com)

Elongation at break (%)	$\geq 350$	ISO 37: 2005
Joint Movement Capacity (%)	$\pm 12.5$	ASTM C920
Shelf Life(month)	9	

### Product limitation

SMP551 silane modified polyether sealant for precast concrete building 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.

### Storage and shelf life

At least 9 months from date of manufacture when stored unopened in a cool, dry place within the temperature below 27°C and out of direct sunlight.

### Guarantee

Guangzhou Baiyun Chemical Industry CO., LTD. has passed ISO9001/ISO14001 /OHSAS18001 management system authentications, and manufacture products strictly according to ISO9001 quality management system requirements.

### 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.

### Purchasing channels



## Guangzhou Baiyun Chemical Industry Co.,Ltd.

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Customers are recommended to purchase SMP Sealant for precast concrete building from Guangzhou Baiyun Chemical Industry CO., LTD. or local distributors we authorized.

### Package

BAIYUN SMP551 silane modified polyether sealant is available in (500 ml) foil sausage packs.

### Color

Available in white, black, gray or other colors on request.

### 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

SMP551 silane modified polyether sealant for precast concrete building is non-hazardous when fully cured. Avoid eye contact with uncured sealant, especially children. In case of eye contact, flush eyes with water or obtain medical attention immediately.

### Standard

SMP551 silane modified polyether sealant for industrialized housing meets or exceeds the requirements of **ASTM C920**.



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### **Remark**

The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we can't accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments.