

CHEMPU SC1928 SILICONE STRUCTURAL SEALANT

1. Characteristics:

- CHEMPU SC1928 belongs to RTV-1
- Neutral curing, non-corrosive to metal, coated glass, concrete, marble etc;
- Excellent resistance to weather, and the service life is over 50 years in the condition of general weather;
- Excellent resistance to low and high temperature change. Little changes of performance at 40~150°C;
- Excellent adhesion to most common building material without priming;
- High intensity, High adhesion, mid modulus, high flexibility;
- Good compatibility with other neutral silicone sealants.
- Belong to non-solvent product, low vulcanization shrinkage and green environmental protection product.

2. Purpose:

- For structural glazing in glass, stone (marble, granite), aluminum curtain wall, glass roof and metal structure engineering;
- As a secondary edge adhesive sealant;
- Many other uses.

3. Typical Technology Data:

No.	Performance		Standard	Measured value	Single Evaluate
1	Appearance		Fine and uniform ointment, it shall not have block gel, surface coagulation and educt that cannot disperse quickly.	Conform to standard	Qualified
2	Slumpability (mm)	Vertical, (mm)	≤3	1	Qualified
		Horizontal	Non distorted	Non distorted	
3	Extrusion, (s)		≤10	1.8	Qualified
4	Apply, 20min/h, s		/	/	
5	Tack-Free Time (h)		≤3	0.8	Qualified
6	Hardness (HA)		30 ~ 60	44	Qualified
7	Tension boding strength (Mpa)		0.60	0.9	GB16776-2005
8	Max. strength elongation(%)		100	165	GB16776-2005
9	Aging test	Loss of heating %	≤10	1.5	Qualified
		Chop	/	/	Qualified
		pulverized	Non	Non	Qualified

Stability	Store for 10 months at -20 ~ 27°C in cool, dry places after date of delivery.
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4. Application Standard:

- China standard GB16776-2005 Silicone Structural Sealant
- U.S.A ASTM C 1184-00 Silicone Structural Sealant
- Company standard Q/(NG)CM 1-2005 Silicone Structural Sealant

5. Color:

- Black, gray, white or other color on request to CHEMPU SC1928

5. Package:

- CHEMPU SC1928 310ml Cartridge net 300ml or in 590ml Aluminium Film

7. Restriction of Usage:

- Unsuitable for all kinds of material that can effuse grease, plasticizer or solvent;
- CHEMPU SC1928 is unsuitable for the air-proof location, because it is required to absorb moisture in air to cure for the sealant;
- Unsuitable for the frosty or moist surface;
- Unsuitable for the continually soggy or moist place;
- Cannot be used if the temperature is below 4°C or above 40°C on the surface of the materials.

8. Technical Service:

- Offer the integral technical data of the products.
- Adhesion test:

The products of CHEMPU SC1928 silicone sealant have excellent adhesion to most common building material, as glass, anodized aluminum, ceramic tile, granite, brick, wood, steel and most plastics. But we cannot ensure our sealants are suitable to all materials, as a result of the unceasing appearance of new building materials and the application of new surface treatment technology. In some cases, it is required to have the adhesion test on the substrates. In the laboratory of our company, we can carry out the adhesion test for clients and give the test report that includes experimental

result, recommended products, cleaning methods of the material surface etc.

● **Compatibility Test:**

If the accessory materials like baker, double-sided glue strip can not be compatible with silicone rubber, it may cause silicone rubber to turn colors, even lose adhesion. To avoid these problems, we provide services of compatibility test for clients. Clients can send the accessory to us by mail (or other ways), then we will carry out the compatibility test and give the test report.

● **Staining Test:**

We provide services of pollution test for clients. Clients can send the substrates to us by mail (or other ways), then we will carry out the staining test and submit the test report.

9. **Joint Design:**

● The joint design of silicone structural sealant must be carried out according to JGJ102 “The Technical Order of Glass Curtain Wall Engineering” by professional designers;

● The width and thickness of silicone structural sealant are no less than 6mm;

● The width of silicone structural sealant should be greater than or equal the thickness;

● The joint of silicone structural sealant can be full of the sealant according to common working procedure;

● The design strength of silicone structural sealant for short term is 0.14Mpa, and the permanent load design strength is 0.007 Mpa;

● The adhesive width and thickness design of silicone structural sealant must be carried out according to JGJ102 “The Technical Order of Glass Curtain Wall Engineering” ;

● The sealant should be able to exposure in the air. Cannot move the joint during the cure.

10. **Working procedure:**

See also “The Technology instruction of CHEMPU Silicone Structural Sealant”

11. **Safety**

- Non-toxicity when cured;
- Avoid eye contact before curing.If happened,rinse opened eye for several minutes under running water,then consult with a doctor;
- Keep away from children;
- Ensure adequate ventilation at workplace or curing area.

12.Maintenance:

Generally there needs no repairing.If impaired in sealing joints,clean with proper solvent and repair with our products that can adhere well.

13.Cure Time:

● CHEMPU SC1928 begins cure from surface to deep after exposure in the air.The Tack-Free Time is about 60min, and the entire curing takes place after 21 days.

Important:

The information contained in this instruction is to correct.However,by no means can it be considered an absolute guarantee,as usage and application of the product in accordance with the instruction given and their success in application is beyond our control and is dependent on a number of factors.Clients should have a good knowledge of the product and make independent judgments of optimal usage before application.