

CONSTRUCTION SILICONE

One part, neutral cure silicone sealant with excellent weatherability, ideally suited for movement joints seal

GB 998 Silicone Weatherproofing Sealant

FEATURES

- Excellent weatherability, virtually unaffected by sunlight, rain, snow and ozone
- Neutral cure – suitable for use on metals, coated glass, aluminum panels, terracotta panels, concrete materials, galvanized steel and many other substrates.
- Extension/compression movement capability of up to ± 35 percent of the original joint width

- Excellent resistance to temperature extremes, stable and flexible over the temperature range from $-50\text{ }^{\circ}\text{C}$ to $+150\text{ }^{\circ}\text{C}$
- Excellent unprimed adhesion to a wide variety of building materials
- Easy of application-ready to use as supplied
- Good compatibility with other neutral silicone sealants

BASIC USES

GB 998 Silicone Weatherproofing Sealant is designed for

- General weather sealing and glazing in glass curtain walls, aluminum curtain walls and terracotta curtain walls
- Sealing the joints of concretes, plastics, metals and etc.

COLOURS

GB 998 is available in black, gray, white and other customized colours.

TYPICAL PROPERTIES

Test Method	Property	Unit	Standard	Result
GB/T 13477 (ISO 7390)	Slump	mm	≤ 3	0
GB/T 13477 (ISO 8394)	Extrusion rate	ml/min	≥ 80	856
GB/T 13477 (ASTM D 2377)	Tack free time	h	≤ 3	1.1
GB/T 13477 (ISO 7389)	Extension recovery	%	≥ 80	97
GB 16776 (ISO 10563)	Weight loss	%	≤ 10	5.6
GB/T 13477 (ISO 8339)	Modulus at 23°C	MPa	> 0.4	0.84
GB/T 13477 (ISO 11600)	Movement capability	%	± 35	± 35
GB/T 13477	Adhesion at fixed stretch		No failure	No failure
GB/T 13477	Adhesion after heat contract and cold extension		No failure	No failure
GB/T 13477	Adhesion after UV-water exposure		No failure	No failure
GB 18583-2008	TVOC	g/L	/	90

*GB: Chinese National Standard

ASTM: American Society for Testing and Materials

ISO: International Standardization Organization

These values are not intended for preparing specifications

GB 998 is designed to meet or even exceed the requirements of

- Chinese specification GB/T 22083-2008 35HM
- Complies with ASTM C 920

PACKAGING

GB 998 is available in disposable cartridges (net 300ml) ,24 pieces to a carton and sausages (net 590ml),20 pieces to a carton

CURE TIME

As exposed to air, GB 998 begins to cure inward from surface. Its tack free time is about 70 minutes, the full and optimal adhesion forms in about 21 days.

STORAGE AND SHELF LIFE

GB 998 should be stored at or below 27°C in original unopened containers. It has a shelf life of 12 months from the date of manufacture.

LIMITATIONS

GB 998 should not be applied:

- As structural sealant
- To the materials that bleed oils , plasticizers or solvents, such as impregnated wood, oil-based caulks
- In totally confined spaces as sealant requires atmospheric moisture for cure
- To frost laden or damp surfaces
- For continuous water immersion
- When substrate surface temperature below 4°C or over 50°C
- To copper, zinc or lead coated surfaces

HOW TO USE

Surface Preparation

Clean all joints removing all foreign matter and contaminants such as oil, grease, dust, water, frost, old sealants, surface dirt, or glazing compounds and protective coatings.

SPECIFICATIONS

Application Method

Install back-up materials or joint fillers, setting blocks, spacer shims, and tapes. Mask areas adjacent to joints to ensure neat sealant lines. Primer is generally not required for non-porous surfaces, but may be necessary for optimal seal performance of certain porous surfaces. So adhesion test is always recommended.

Apply GB 998 in a continuous operation using dispensing guns. Before a skin forms, tool the sealant with light pressure to spread the sealant against the backing materials and joint surfaces. Remove masking tape as soon as the bead is tooled.

SAFETY INFORMATION

- GB 998 is a chemical product, not edible, no implantation into body and should be kept away from children.
- Cured silicone rubber can be handled without any risk to health.
- Should uncured silicone sealant contact with eyes, rinse thoroughly with water and seek medical treatment if irritation persists.
- Avoid prolonged exposure of skin to uncured silicone sealant.
- Good ventilation required for work and cure places.

TECHNICAL SERVICES

Complete technical information and literature, adhesion testing and compatibility testing are available from Guibao.

DISCLAIMER

The information presented herein is offered in good faith and is believed to be accurate. However, because conditions and methods of using our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for intended specific applications.

Manufacturer

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