

GB 1098 High Performance Silicone Weatherproofing Sealant

High performance neutral silicone sealant with excellent weatherability, ideally suited for movement joints of the high rise curtain walls and skyscrapers

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

FEATURES

- One part , excellent weatherability,unaffected by sunlight, rain, snow and ozone
- Neutral cure – suitable for use on metals, coated glass, aluminium panels, terracotta panels, concrete materials, galvanized steel and many other substrates.
- Excellent tensile strength and $+100/-50$ movement capability

BASIC USES

GB1098 High Performance Silicone Weatherproofing Sealant is specially designed for

- Weather seal for the high-rise curtain walls and skyscrapers
- Weather seal for the large-sized metal and glass panel curtain walls, spider systems
- Weather seal of other construction joints with higher movement or with higher safety requirement

COLOURS

GB 1098 is available in black, gray, white and other customized colours.

TYPICAL PROPERTIES (These values are not intended for preparing specifications.)

Test Method	Property	Unit	Standard(LM)	Result
GB/T 13477 (ISO 7390)	Slump	mm	≤ 3	0
GB/T 13477 (ISO 8394)	Extrusion rate	ml/min.	≥ 80	696
GB/T 13477 (ASTM D2377)	Tack free time	h	≤ 3	1.5
GB/T 13477 (ISO7389)	Extension recovery	%	≥ 70	89
GB/T 13477 (ISO 8339)	Modulus at 23 $^{\circ}\text{C}$	MPa	>0.4 or	0.8
	-20 $^{\circ}\text{C}$	MPa	>0.6	/
GB 16776 (ASTM C 792)	Heat aging			
	Weight loss	%	≤ 10	4.1
	Chalking		Nil	Nil
	Cracking		Nil	Nil
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: Chinese National Standard

ASTM: American Society for Testing and Materials

ISO: International Standardization Organization

SPECIFICATIONS

GB 1098 is designed to meet or even exceed the requirements of

- Chinese national specification
GB/T 22083-2008 class 100/50
- Complies with ASTM C 920-2005

PACKAGING

GB 1098 is available in 350ml disposable cartridges (net 300ml), 24 pieces to a carton and sausages (net 590ml), 20 pieces to a carton.

STORAGE AND SHELF LIFE

GB1098 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

GB1098 should not be applied:

- 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 surface temperature below 4°C or over 50°C
- To porous substrates such as stone, concrete before confirmation with manufacturer

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.

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 1098 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 1098 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 is necessary for work and cure places.

TECHNICAL SERVICES

Complete technical information and literature, adhesion testing and compatibility testing and 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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