

High performance silicone rubber special for structural glazing in high-rise or skyscraper curtain walling

## FEATURES

- Excellent tensile strength and extension/compression capability, ideally suited for high rise curtain walls and skyscrapers, glass and aluminum curtain walls, steel structure curtain walls, etc.
- Neutral cure, non-corrosive to the surfaces to be bonded
- Excellent weatherability
- Excellent stability over temperature range from -50°C to +150°C
- Excellent unprimed adhesion to a wide range of substrates
- Good compatibility with other neutral silicone sealants

## COLOURS

GUIBAO 1099 is available in black, grey, white or other customized colours.

## PACKAGING

GUIBAO 1099 is available in disposable cartridges (net 300ml) and sausages (net 590ml).

# GUIBAO 1099 HIGH PERFORMANCE SILICONE STRUCTURAL GLAZING SEALANT

## BASIC USES

GUIBAO 1099 HIGH PERFORMANCE SILICONE STRUCTURAL GLAZING SEALANT is designed for

- Structural sealing and glazing for the curtain walls of high-rise buildings and skyscrapers
- Structural sealing and glazing of large-sized glass panel curtain walls
- Structural sealing and glazing irregular glass curtain walls

## TYPICAL PROPERTIES

These values are not intended for use in preparing specifications.

Test Method	Property	Unit	Standard	Result
GB/T 13477 (ISO 7390)	Slump	mm	≤3	0
GB/T 13477 (ISO 7390)	Extrusion rate	s	≤3	4.2
GB/T 13477 (ASTM D 2377)	Tack free time	h	≤10	0.3
GB/T 531.1 (ISO 7619)	Hardness	Shore A	30 ~ 60	47
GB 16776 (ASTM C 792)	Heat Aging			
	weight loss	%	≤10	3.2
	cracking		Nil	Nil
GB/T 13477 (ISO 8339)	chalking		Nil	Nil
	Tensile strength	MPa		
	23°C		≥0.6	1.36
	90°C		≥ 0.45	0.95
	-30°C		≥ 0.45	1.99
	water immersion		≥ 0.45	1.42
	water-UV exposure		≥ 0.45	1.23
adhesion failure	%	≤ 5.0	0	
	elongation at ultimate tensile strength at 23°C	%	≥ 100	286

\*GB: Chinese National Standard

ASTM: American Society for Testing and Materials

ISO: International Standardization Organization

## SPECIFICATIONS

GUIBAO 1099 is designed to meet or even exceed the requirements of

- Chinese national specification GB16776-2005  
Silicone Sealant for Structural Glazing
- Complies with ASTM C 1184-2005

## STORAGE AND SHELF LIFE

GUIBAO 1099 should be stored in original unopened containers. It has a shelf life of 12 months from the date of manufacture.

## LIMITATIONS

GUIBAO 1099 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

## 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 GUIBAO 1099 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

- GUIBAO 1099 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 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 uses.

### Manufacturer

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