

Non-staining elastomeric silicone sealants specially suited for porous substrates

## *GB 997 Silicone Sealant For Stone Applications*

### FEATURES

- One part, neutral cure, easy for application
- Non-staining to natural stones and other porous substrates
- Outstanding UV and weathering resistance
- Excellent resistance to temperature extremes, unaffected performance from -50°C to +150°C
- Excellent adhesion to marbles, granite, cement panels and etc.
- Excellent unprimed adhesion to wide range of substrates including natural stone, glass, metal, ceramic tile, and anodized aluminum
- Good compatibility with other neutral silicone sealants

### COLOURS

GB 997 is available in black, gray and other customized colours.

### PACKAGING

GB997 is available in cartridges (net 300ml), 24 pieces to a carton or in sausages (net 500ml), 20 pieces to a carton

### BASIC USES

GB 997 Silicone Sealant for Stone Applications is specially formulated for

- Weatherseal in stone curtain walling and cement panel precasting
- Bonding and caulk seal in ceramic engineering
- Sealing the joints between stone and other construction materials such as glass and metals etc.

### 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 8394)	Extrusion rate	ml/min.	≥80	373	
GB/T 13477 (ASTM D 2377)	Tack free time	h	≤3	1.2	
GB/T 13477 (ISO 7389)	Extension recovery	%	≥80	96	
GB/T 13477 (ISO 8339)	Modulus at 23°C	MPa	>0.4	0.74	
GB/T 13477 (ISO 11600)	Movement capability	%	±20	±20	
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 at fixed stretch after water immersion		No failure	No failure	
GB/T 23261	Staining	Stain depth	mm	≤2.0	0
		Stain width	mm	≤2.0	0
GB/T 13477 (ISO 10563)	Weight loss	%	≤5.0	3.0	

\*GB: Chinese National Standard

ASTM: American Society for Testing and Materials

ISO: International Standardization Organization

## **SPECIFICATIONS**

GB 997 is designed to meet or even exceed the requirements of

- Chinese national specification  
GB/T 23261-2009 20HM
- Complies with ASTM C 1248

## **STORAGE AND SHELF LIFE**

GB 997 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 997 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 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, surface dirt, 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 997 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 997 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, stain 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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