

Two part silicone sealant suited for the secondary seal in structural insulating glass units

FEATURES

- Two part, neutral fast cure rate, suitable for factory application
- High level of tensile strength and mechanical properties
- Excellent adhesion to a wide range of substrates including coated glass, low -E glass, tempered glass, laminated glass, aluminium and steel spacers etc.
- Excellent weatherability and high resistance to ultra-violet radiation ,heat and humidity, and ozone
- Excellent resistance to temperature extremes, unaffected performance from -50 °C to +150 °C
- Excellent unprimed adhesion to wide range of substrates
- Good compatibility with other neutral silicone sealants

COLOURS

Part A (base) of GB 886 is available in white, part B(curing agent) in black, black colour after mixing.

GB 886 Silicone Structural Insulating Glass Sealant

BASIC USES

GB 886 Silicone Structural Insulating Glass Sealant is specially designed for use as secondary sealant for structural insulating glass units.

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 9048)	Extrusion rate	s	≤10	1.9
GB/T 13477 (ASTM D2377)	Tack free time	h	≤3	1.3
GB/T 13477 (ISO 8339)	Modulus at 10% extension	MPa	≥0.15	0.22
GB/T 531 (ISO 7619)	Hardness	Shore A	30~60	43
GB/T 13477	Adhesion at 25% extension		No failure	No failure
GB/T 13477 (ISO 8339)	Tensile strength at	MPa		
	23°C		≥0.60	1.13
	90°C		≥0.45	0.87
	-30°C		≥0.45	1.58
	water immersion		≥0.45	1.03
	water-UV		≥0.45	0.98
GB 16776 (ASTM C 792)	Heat aging			
	weight loss	%	≤6.00	3.4
	chalking		Nil	Nil
	cracking		Nil	Nil

*GB: Chinese National Standard

ASTM: American Society for Testing and Materials

ISO: International Standardization Organization

PACKAGING

GB 886 is available in kit: part A base in 200L drums (net 190L), part B is available in 20L pails (net 19L)

SPECIFICATIONS

GB 886 is designed to meet or even exceed the specification of Chinese national standard GB24266-2009.

STORAGE AND SHELF LIFE

GB 886 should be stored at or below 27°C in original unopened containers. It has a shelf life of months from the date of manufacture.

LIMITATIONS

GB 886 should not be applied:

- For structural glazing of glass units onto a metal frame. GB 992 two part structural silicone and GB 999 one part structural silicone are recommended for that application
- To the materials that bleed oils , plasticizers or solvents, such as impregnated wood, oil-based caulks
- 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.

Mixing and Dispensing

To obtain the optimal performance of GB 886, it is recommended that base and curing agent thoroughly mixed using a two-part silicone dispensing machine.

GB 886 should be mixed at a ratio of 9:1~11:1 base to curing agent by volume, or 11:1~13:1 base to curing agent by weight.

Lot matching of GB 886 base to curing agent is not required. Before use, it is recommended that curing agent be stirred to ensure the homogeneity of all components.

GB 886 part B curing agent will react with atmospheric moisture, therefore should not be exposed to air for prolonged period of time.

Priming

Priming is not usually required when using GB 886. But it is essential that adhesion is tested prior to use to decide whether to use primer or not.

Masking and Tooling

Areas adjacent to joints may be masked to ensure a neat sealant line. Do not allow mask tape to touch clean surfaces to which the silicone sealant is to adhere. Tooling should be completed in one continuous stroke after sealant application. Masking tape should be removed immediately after tooling.

Equipment Cleaning

When not being used, it is recommended that the dispensing equipment be purged either with the base component or flush with suitable solvent.

SAFETY INFORMATION

- GB 886 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 specific applications.

Manufacturer

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