



TECHNOLOGY MAKES LIFE BETTER

安徽省蚌埠市高新区兴中路 985 号
日月科技园

电话: 86-552-3827158

传真: 86-552-3822922

安徽艾约塔硅油有限公司

IOTA CORPORATION LTD.

Sunmoon industry park, 985 Xingzhong Road,
Bengbu, China 233000

Tel: 86-552-3827158

Fax: 86-552-3822922

IOTA GF998 Fire Resistant Silicone Weatherproofing Sealant

1. Weatherproofing joint seal for the curtain wall with fire resistance requirement;
2. $\pm 25\%$ movement capacity

Features:

1. FV-0 class fire resistance ,the highest rate in China
2. Excellent weatherability, virtually unaffected by sunlight, rain, snow and ozone
3. Neutral cure – suitable for use on metals, coated glass, aluminium panels, terracotta panels, concrete materials, galvanized steel and many other substrates.
4. Extension/compression movement capability of up to ± 25 percent of the original joint width
5. Excellent resistance to temperature extremes, stable and flexible over the temperature range from -50 to $+150$ °C
6. Excellent unprimed adhesion to a wide variety of construction materials
7. Easy of application-ready to use as supplied
8. Good compatibility with other neutral silicone sealants

COLOURS

IOTA GF998 is available in black and gray

PACKAGING

IOTA GF998 is available in disposable cartridges (net 300ml) and sausages (net 590ml).

SPECIFICATIONS

IOTA GF998 is designed to meet or even exceed the requirements of Chinese specification JC/T 882-2001 25HM & GB/T 2408-2008
Complies with ASTM C 920

Typical properties:

These values are not intended for preparing specifications

Test Method	Property	Unit	Standard	Result
GB/T 13477 (ISO 7390)	Slump	mm	≤ 3	0
			≤ 3	0
GB/T 13477 (ISO	Extrusion rate	ml/min.	≥ 80	842

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8394)				
GB/T 13477 (ASTM D2377)	Tack free time	h	≤3	1.3
GB/T 13477 (ISO 7389)	Extension recovery	%	≥80	96
GB 16776	Weight loss	%	≤10	4.0
GB/T 13477 (ISO 8339)	Modulus at 23°C	MPa	>0.4	0.74
GB/T 13477 (ISO 11600)	Movement capability	%	±25	±25
GB/T 13477	Extension/compression rate	%	±25	±25
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 water exposure		No failure	No failure
GB/T 2408	Fire resistance rate		FV-0	FV-0

*GB: Chinese National Standard

ASTM: American Society for Testing and Materials

ISO: International Standardization Organization

The "GB" testing method is equivalent or partly equivalent to that in the "()".

STORAGE AND SHELF LIFE

IOTA GF998 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

IOTA GF998 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

To copper, zinc or lead coated surfaces

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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 IOTA GF998 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.

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Add: Sunmoon industry park, 985 Xingzhong Road, Bengbu, China 233000

TeL: 0086-552-7183958 Fax: 0086-552-3822922

Whatsapp : 0086-15556181299 WeChat :Amandalin99

QQ: 309136222

Email: sales02@siliconeoil.net

Website: www.rtvsilicone.net

ADD: Sunmoon industry park, 985 Xingzhong Road, Bengbu, China 233000

Tel: 86-552-3827158; Fax: 86-552-3822922 Website: www.personalcaresilicone.com