

Product Name

产品名称

SMT-911 Flame Retardant Special Sealant

SMT-911 阻燃防火专用胶

Description

描述

SMT 911 series is a one-component, neutral, room-temperature curing, high-performance silicone structural sealant for construction. It can be easily extruded for application and reacts with moisture in the air. After curing, it forms a cold-resistant, heat-resistant and non-corrosive elastomer. It features outstanding flame retardancy: it will not sustain combustion under open flame and self-extinguishes once the flame is removed, achieving V-0 flame retardant rating. It possesses weathering resistance including ozone resistance and UV resistance, ensuring a long service life. It offers excellent adhesion and generally does not require primer under normal conditions. The cured sealant develops strong adhesion to most building materials such as glass, aluminum, steel and stone. It delivers good elasticity and movement accommodation capability.

This product is indicated for:

- Bonding and sealing of various fire doors and windows, flame-retardant sealing for each layer in curtain wall projects
- Fixation and flame-retardant sealing of electronic and electrical components
- Fireproof and moisture-proof sealing for decorations in public areas

SMT 911系单组份、中性、室温固化、高性能的建筑结构用硅酮密封胶，可以方便的挤出进行施工，并与空气中的水发生反应，固化后形成具有耐寒、耐热、无腐蚀的弹性体；阻燃性能卓越，遇明火不助燃、离火自息，阻燃等级V-0级；具有耐臭氧、耐紫外线等耐候性能，赋予其长久的使用寿命；具有良好的粘接性，在通常情况下无需底涂；固化后对大多数建材，如玻璃、铝材、钢材和石材等表面均能产生良好的粘结力；具有较好的弹性和抗位移变形能力。

本品适用于：

- 各类防火门窗粘接密封，幕墙工程各层的阻燃密封
- 电子、电器元件的固定及阻燃密封
- 公共场所装饰的防火、防潮密封等

Properties

产品特点

- Flame retardant performance meets HB rating
 - Does not emit dense smoke or toxic fumes during combustion
 - Ketoxime-curing, one-component; good extrudability and thixotropy between 5°C and 40°C
 - Neutral curing, non-corrosive to most building materials
 - Excellent weathering resistance, with resistance to heat, ultraviolet radiation, ozone and water
 - Outstanding high and low temperature resistance. After curing, it will not become brittle, hard or crack at -50°C, and will not soften or degrade at 150°C, maintaining good strength and elasticity
 - Excellent adhesion to most building materials to form robust sealing joints
 - Good compatibility with other neutral silicone sealants
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- 阻燃性能符合 HB 级
 - 在燃烧时不会放出浓烟或有毒气体
 - 脱酮肟型、单组分，在 5°C ~ 40°C 具有良好的挤出性和触变性
 - 中性固化，对大部分建筑材料无腐蚀性
 - 优异的耐气候老化性能，耐热、耐紫外线、耐臭氧、耐水
 - 耐高低温性能卓越，固化后在 -50°C 不变脆、硬化或开裂，在 150°C 不变软、降解，保持良好的强度和弹性
 - 对大部分建筑材具有优良的粘接性，可以形成很强的密封
 - 与其他中性硅酮胶具有良好的相容性

Applications

产品应用

Before application:

- Prior to application, compatibility tests between the sealant and contacting materials as well as adhesion tests on the substrates to be bonded shall be carried out.

Construction Method:

- All application surfaces must be clean, dry and free of contaminants.
- Fit the cartridge into a suitable caulking gun. Cut the nozzle according to joint width, then extrude sealant into the joint to ensure full contact between sealant and joint edges.
- Compact the sealant with a proper tool and scrape off excess material.

施工前:

- 施工前应进行密封胶与所接触材料的相容性试验和与待粘结基材的粘结性试验。

施工方法:

- 施工表面必须清洁、干燥、无污垢。
- 将胶管装在合适的胶枪上，根据接缝宽度切割胶嘴，将胶挤入接缝中，确保胶与接缝的边完全接触。
- 用合适的工具压实密封胶，并刮除多余的胶。

Storage

存储要求

This product is non-hazardous. Store in cool and dry place below 10-27°C. Shelf life: 12 months. Use as soon as possible.

本产品属于非危险品，储存于温度在10-27°C的阴凉干燥处，有效期为12个月，建议尽早使用。

Note

注意事项

- Not for use as structural sealant.
 - Not recommended for copper and polycarbonate substrates.
 - Do not apply when the material surface temperature is below 5°C or above 40°C.
 - Not suitable for frosted, damp areas or places with continuous water immersion.
 - Avoid contact with rubber materials (such as rubber strips and rubber pads) to prevent yellowing.
 - Avoid contact with acidic and alkaline substances (e.g. exterior wall cleaning agents) to prevent discoloration.
 - Not suitable for materials that exude grease, plasticizers or solvents, including oil-impregnated wood surfaces.
 - Use within the product shelf life. Expired product is forbidden for use.
 - Construction shall be performed strictly in accordance with adhesion test procedures.
 - Avoid direct skin and eye contact. Do not ingest.
 - Keep out of reach of children.
 - Do not apply in airtight and poorly ventilated spaces, as the sealant cures by absorbing atmospheric moisture.
 - Trace chemicals will be released during curing. Adequate ventilation is required at the working area. The fully cured sealant is non-toxic to human health.
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- 不能作为结构密封胶使用。
 - 不宜用于铜及聚碳酸酯材料。
 - 材料表面温度低于5°C或超过40°C时，不宜施工。
 - 不宜用于结霜、潮湿或连续浸水的地方。
 - 应避免与橡胶类材料接触（如胶条、橡胶垫块等），以免发生黄变。
 - 应避免与酸性或碱性物质接触（如外墙清洗液），以免发生变色。
 - 不宜用于所有会渗出油脂、增塑剂或溶剂的材料，如浸油木材的表面。
 - 应在产品保质期内使用，过期产品不得使用。
 - 应严格按照粘结性试验的流程施工。
 - 避免皮肤和眼睛直接接触，请勿吞食。
 - 避免小孩接触。请放置于儿童接触不到的地方。
 - 不宜用于密不通风的场所，因为密封胶需吸收空气中的水分固化。
 - 产品在固化过程中会释放出微量化学物质，作业场所应保持充分的通风，固化后对人体无毒。

Shelf life & Instruction

使用寿命和说明

Shelf life: 12 months

保质期：12 个月

These instructions are only recommendations, which are based on our experience. We advise preliminary testing before use.

这些说明只是基于我们的经验的建议。我们建议在使用前进行初步测试。

Packaging Specification

包装规格

This product is available in standard 300ml rigid cartridges (24 pieces per carton) and 600ml soft sausage packs (20 pieces per carton). Custom filling specifications can be provided upon customer request.

本产品采用标准的 300ML 胶料胶瓶包装，24 支/箱；600ML 软支包装，20 支/箱。也可根据客户要求灌装。

Technical Data Sheet (Condition: 23°C, 55%RH)

技术参数表 (条件: 23°C, 55%RH)

Test Items		Technical requirements	Typical Data	Test Method
Appearance		Smooth and uniform paste, free of bubbles, skinning and gel lumps	Smooth and uniform paste, free of bubbles, skinning and gel lumps	Visual inspection
Extrudability, g/ 5s		≥10 (Nozzle tip diameter: ϕ 3.2 mm, operating pressure: 0.4 MPa)	16	GB/T 13477.4
Density, g/cm ³		1.35±0.03	1.34	GB/T 13477.2-2018
Sag Resistance	vertical, mm	≤3	0	GB/T 13477.6
Tack-free time, min		10-30	13	GB/T 13477.5
Cure rate, mm/24h		≥1.0	1.5	GB/T 13477.22
Tensile Strength, MPa		≥1.3	1.4	GB/T 528-2009
Elongation at Break, %		≥300	390	
Hardness, Shore A		40-60	55	GB/T 39693.4-2025

检测项目		技术指标	典型数据	检测标准
外观		细腻、均匀膏状物，不应有气泡、结皮或凝胶	细腻、均匀膏状物，不应有气泡、结皮或凝胶	目测
挤出性, g/ 5s		≥10 (尖嘴 ϕ 3.2mm, 压力 0.4MPa)	16	GB/T 13477.4
密度, g/cm ³		1.35±0.03	1.34	GB/T 13477.2-2018
下垂度	垂直, mm	≤3	0	GB/T 13477.6
表干时间, min		10-30	13	GB/T 13477.5
固化速度, mm/24h		≥1.0	1.5	GB/T 13477.22
拉伸强度, MPa		≥1.3	1.4	GB/T 528-2009
断裂伸长率, %		≥300	390	
硬度, Shore A		40-60	55	GB/T 39693.4-2025