

Product Name

产品名称

SMT--M18 Silane Modified Polyether Sealant

SMT-M18 硅烷改性聚醚密封胶

Description

描述

SMT-M18 Silane-Modified Polyether Sealant is a one-component neutral curing sealant with Class 25 movement capability. It offers excellent adhesion to building materials including glass, aluminum, cement, concrete and stone. Featuring high modulus, high bonding strength and eco-friendly zero pollution, this product is mainly used for general indoor sealing and construction material bonding.

This product is indicated for:

- General indoor sealing and bonding
- Sealing and joint filling between metal, aluminum alloy doors/windows and walls

SMT-M18硅烷改性聚醚密封胶是一种单组分中性固化密封胶产品，位移能力为25级，该产品对玻璃、铝材、水泥、混凝土、石材等建材具有良好的粘接能力，具有模量高、强度大、环保无污染等特点，该产品主要应用于室内通用密封、建材粘接等领域。

本品适用于：

- 室内通用密封粘接
- 金属、铝合金门窗和墙体间的密封与填缝作用

Properties

产品特点

- Eco-friendly, non-toxic and ultra-low VOC, odor-free, causing no contamination or corrosion to substrates.
- Excellent adhesion performance on building materials such as glass, aluminum, cement, concrete and stone.
- High modulus and high strength. It meets bonding and sealing requirements with high bonding strength between precast concrete components and window frames for prefabricated buildings.
- Class 25 movement capability. The product maintains stable performance and provides reliable bonding & sealing against expansion, contraction and shear deformation in general indoor sealing and construction material bonding applications.
- Good paintability; the cured surface can be overcoated.
- Outstanding resistance to weathering, high temperature and low temperature.
- One-component for easy operation. It features good extrudability within 5°C~40°C and can be directly applied with a caulking gun.

- 环保无毒、超低 VOC，无毒无味，对基材无污染、无腐蚀。
- 具有优异的粘接性，对玻璃、铝材、水泥、混凝土、石材等建材具有优异的粘接性能。
- 高模量、强度大。可满足装配式建筑窗框与混凝土预制构件之间有粘接强度要求的粘接与密封需求。
- 位移能力为 25 级，对于室内通用密封、建材粘接的伸缩及剪切变形，本产品都能保持性能不变，起到有效的粘接

密封作用。

- 良好的涂饰性，表面具有可涂饰性。
- 优异的耐候、耐热和耐寒性。
- 单组分，操作方便，在 5℃~40℃范围内具有良好的挤出性，用胶枪挤出即可施工。

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℃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 to be used as structural sealant.
 - Not applicable for curtain wall projects.
 - Do not construct when the surface temperature of materials is below 5°C or above 40°C.
 - Unsuitable for continuously submerged areas or permanently humid environments.
 - Avoid contact with rubber materials (such as rubber strips, rubber pads, etc.) to prevent yellowing.
 - Avoid contact with acidic or alkaline substances (e.g. exterior wall cleaning agents) to prevent discoloration.
 - Not suitable for substrates that exude oil, plasticizers or solvents, such as surfaces of oil-impregnated wood.
 - When bonding cement and concrete substrates, the substrates must be fully dried and cured for 7 days before application; otherwise the adhesion performance will be affected.
 - The construction surface must be clean, dry and free of dirt.
 - Use within the shelf life of the product; expired products are forbidden to be used.
 - Construction shall be carried out in strict accordance with the adhesion test procedures.
 - Avoid direct contact with skin and eyes. Do not ingest.
 - Keep away from children. Store out of children's reach.
 - Trace amounts of chemical substances will be released during curing. Adequate ventilation must be maintained at the workplace. The cured product is non-toxic to human bodies.
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- 不能作为结构密封胶使用。
 - 不能用于幕墙工程。
 - 材料表面温度低于5℃或超过40℃时，不宜施工。
 - 不宜用于连续浸水的地方或终年潮湿的地方。
 - 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。
 - 粘接水泥、混凝土基材时必须待基材完全干燥并养护7天后方可施工，否则会影响粘接性能。
 - 施工表面必须保持清洁、干燥、无污垢。
 - 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。
 - 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		≥60 (Nozzle tip diameter: ϕ 3.2 mm, operating pressure: 0.4 MPa)	70	GB/T 13477.4
Density, g/cm ³		1.48±0.03	1.48	GB/T 13477.2-2018
Sag Resistance	vertical, mm	≤3	0	GB/T 13477.6
Tack-free time, min		10-30	25	GB/T 13477.5
Cure rate, mm/24h		≥2.5	3.0	GB/T 13477.22
Tensile Strength, MPa		≥1.8	2.0	GB/T 528-2009
Elongation at Break, %		≥300	530	
Hardness, Shore A		40-50	46	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		≥60 (尖嘴 ϕ 3.2mm, 压力 0.4MPa)	70	GB/T 13477.4
密度, g/cm ³		1.48±0.03	1.48	GB/T 13477.2-2018
下垂度	垂直, mm	≤3	0	GB/T 13477.6
表干时间, min		10-30	25	GB/T 13477.5
固化速度, mm/24h		≥2.5	3.0	GB/T 13477.22

拉伸强度, MPa	≥1.8	2.0	GB/T 528-2009
断裂伸长率, %	≥300	530	
硬度, Shore A	40-50	46	GB/T 39693.4-2025