

Product Name

产品名称

SMT-S5CT Acetic Clear Silicone Sealant

SMT-S5CT 酸性透明硅酮密封胶

Description

描述

- SMT-S5CT is a one-component, acetic acid curing silicone sealant. It boasts excellent flexibility, waterproof performance, aging resistance, UV resistance, high and low temperature resistance and durability, as well as outstanding adhesion. It is an ideal sealing material for civil assembly applications such as architectural glass, doors, windows and display windows.

This product is indicated for:

- Sealing and bonding joints of glass, doors, windows, cabinets, display racks, fish tanks and other items.
- Sealing and bonding joints of other building materials including aluminum alloy, ceramic tiles, plastic, wood, etc.

- SMT-S5CT是单组分、醋酸性固化的硅酮密封胶。具有良好的柔韧性、防水性、抗老化、抗紫外线辐射以及耐高低温和耐久性，并且还具有良好的粘结性，是建筑玻璃、门窗和橱窗等民用装配理想的密封材料。

本品适用于：

- 玻璃、门窗、橱柜、展示架、鱼缸等接口密封、粘接。
- 其他建筑材料如铝合金、瓷砖、塑料和木材等接口密封、粘接。

Properties

产品特点

- One-component, room-temperature curing, translucent, easy to use with good workability; can be directly extruded and applied with a caulking gun.
- Excellent adhesion: Bonds well with various building materials including glass, ceramics, wood and metals.
- Superior durability: Cures into strong, elastic silicone rubber that maintains stable performance from -40°C to 150°C, resisting cracking and chalking.
- Waterproof, shock and impact resistant: Delivers reliable waterproof performance with outstanding seismic resistance and impact resistance.
- Thixotropic property: Thixotropic formula prevents sagging and flowing for convenient construction.
- 单组分、室温固化、半透明、使用方便，具有良好的施工性能，用打胶枪挤出直接施工即可
- 粘结性好：对玻璃、陶瓷、木材、金属等多种建筑材料具有良好的粘结性能
- 耐久性强：固化后形成强有力且具弹性的硅酮橡胶，在-40°C到 150°C的温度范围内都能保持性能，不易龟裂、粉化
- 防水、抗震和抗冲击：具备良好的防水性能，以及出色的抗震性和抗冲击性能
- 触变性：具有触变性，不易流淌，便于施工

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°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

- Direct contact with the reflective coating of mirrors is not recommended.
 - Not suitable for locations under continuous water immersion or with year-round high humidity.
 - Not applicable to easily corroded or hard-to-bond substrates such as copper, brass, zinc, magnesium, electroplated layers, polycarbonate, polyethylene and Teflon.
 - Not suitable for alkaline substrates including cement, stone and concrete (prone to fogging and oil bleeding).
 - Not for underground joints or food contact surfaces.
 - Do not construct when the substrate surface temperature is lower than 5°C or higher than 40°C.
 - Unsuitable for all substrates that exude grease, plasticizers or solvents, such as oil-impregnated wood surfaces.
 - Shall not be used as structural sealant.
 - Avoid contact with rubber materials (e.g. rubber strips, rubber gaskets).
 - The bonding surface must be clean, dry and free of contaminants.
 - Use within the shelf life; expired products are prohibited from use.
 - Construction must be carried out strictly in accordance with adhesion test procedures.
 - Avoid direct contact with skin and eyes; do not ingest.
 - Keep out of reach of children.
 - Trace chemicals will be released during curing. Sufficient ventilation must be maintained at the workplace; the cured sealant is non-toxic to human bodies.
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- 不建议直接和镜子的反射镀膜接触。
 - 不宜用于连续浸水的地方或终年潮湿的地方。
 - 不宜用于铜、黄铜、锌、镁、电镀层、聚碳酸酯、聚乙烯、特氟龙等易腐蚀/难粘基材。
 - 不宜用于水泥、石材、混凝土等碱性基材（易起雾、渗油）。
 - 不宜用于地底接缝、食品接触面。
 - 材料表面温度低于5℃或超过40℃时，不宜施工。
 - 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。
 - 不能作为结构密封胶使用。
 - 应避免与橡胶类材料接触（如胶条、橡胶垫块等）。
 - 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 supplied in standard 300ml sealant cartridges, 24 cartridges per carton. Custom filling is available per customer requirements.

本产品采用标准的300ML胶料胶瓶包装，24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		It is a smooth and uniform paste or viscous fluid, free of bubbles, skinning and gel lumps, without undispersible precipitates.	It is a smooth and uniform paste or viscous fluid, free of bubbles, skinning and gel lumps, without undispersible precipitates.	Visual inspection
Density, g/cm ³		0.93±0.03	0.92	GB/T 13477.2-2018
Sag Resistance	vertical, mm	≤3	0	GB/T 13477.6-2002
	Horizontal	No deformation	No deformation	
Tack-free time, min		≤20	10	GB/T 13477.5-2002
Extrudability, g/5s		≥20 (Nozzle tip diameter: φ3.2 mm, operating pressure: 0.24 MPa)	78	GB/T 13477.3-2017
Cure rate, mm/24h		≥1.0	3.0	GB/T 13477.22
Elongation at Break, %		≥600	1100	GB/T 528-2009
Tensile Strength, Mpa		≥0.8	1.4	GB/T 528-2009
Hardness, Shore A		5-15	10	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、均匀膏状物或粘稠体, 不应有气泡、结皮或凝胶, 无不易分散的析出物	细腻、均匀膏状物或粘稠体, 不应有气泡、结皮或凝胶, 无不易分散的析出物	目测
密度, g/cm ³		0.93±0.03	0.92	GB/T 13477.2-2018
下垂度	垂直, mm	≤3	0	GB/T 13477.6-2002
	水平	无变形	无变形	
表干时间, min		≤20	10	GB/T 13477.5-2002
挤出性, g/5s		≥20(尖嘴φ3.2mm, 压力 0.24MPa)	78	GB/T 13477.3-2017
固化速度, mm/24h		≥1.0	3.0	GB/T 13477.22
断裂伸长率, %		≥600	1100	GB/T 528-2009

拉伸强度, Mpa	≥0.8	1.4	GB/T 528-2009
邵氏硬度, Shore A	5-15	10	GB/T 39693.4-2025