

Product Name

产品名称

SMT-898Aquarium Special Silicone Sealant

SMT-898 水族馆专用胶

Description

描述

SMT 898 is a one-component, acid-cure silicone sealant with fast room-temperature curing, high modulus and low movement capability. It is a high-performance acid silicone sealant, non-corrosive to most substrates and boasts excellent adhesion, flexibility, waterproof performance, wide temperature resistance and long-term durability. It is suitable for architectural glass, doors & windows, shop windows, display cabinets, aquariums and various other building materials.

This product is indicated for:

- Bonding of aquariums and glass water tanks
- Structural engineering for large glass panels and skylight glass
- Joint sealing for uncoated glass curtain walls, suspended glass structural assembly systems and point-supported curtain walls
- Bonding and sealing for conventional elevators and sightseeing elevators
- Assembly or sealing of high-end doors, windows and commercial display cabinets
- Bonding, waterproof sealing for other indoor and outdoor building products and industrial components.

SMT 898是单组份、脱酸型、室温快速固化、高模量、低变形率、高性能的酸性硅酮密封胶。对大多数基材无腐蚀性，具有良好的粘接性，具有良好的柔韧性、防水性、耐高低温和耐久性，应用于建筑玻璃、门窗和橱窗、展示柜、鱼缸以及其他建筑材料。

本品适用于：

- 适用于水族馆，玻璃水箱的粘接
- 大板玻璃、采光顶玻璃结构工程
- 非镀膜玻璃幕墙，悬挂玻璃结构装配系统，点式幕墙的接缝密封
- 一般电梯、观光梯粘接密封
- 高档门窗、商店的展示柜的装配或密封
- 其他的室内室外建筑制品或工业产品的粘接、防水密封

Properties

产品特点

- One-component, room-temperature curing: Easy to use with no mixing required; cures upon exposure to atmospheric moisture.
- Excellent adhesion: Offers reliable bonding performance to multiple construction substrates including glass, ceramics, wood and metals.
- Superior durability: Cures into tough, elastic silicone rubber that retains stable performance from -40°C to 150°C, resisting cracking and chalking.
- Waterproof, seismic and impact resistant: Delivers outstanding waterproof property together with great seismic and shock resistance.
- Thixotropic: Features good thixotropy and sag resistance for convenient application.
- 单组分、室温固化：使用方便，无需混合其他组分，接触空气中的水分即可固化
- 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

- Structural assembly, secondary sealing of insulating glass, hidden frame curtain walls.
 - Not recommended for joints with movement exceeding $\pm 25\%$.
 - Direct contact with the reflective coating layer of mirrors is prohibited.
 - Not suitable for areas with continuous water immersion or permanently humid environments.
 - Not applicable to corrosive or hard-to-bond substrates such as copper, brass, zinc, magnesium, electroplated coatings, polycarbonate, polyethylene and Teflon.
 - Unsuitable for alkaline substrates including cement, stone and concrete (risk of fogging and oil bleeding).
 - Shall not be used for underground joints or food-contact surfaces.
 - Application is forbidden when the substrate surface temperature is lower than 5°C or higher than 40°C .
 - Not suitable for materials releasing grease, plasticizers or solvents, e.g. surfaces of oil-impregnated wood.
 - Must not be used as structural glazing sealant.
 - Avoid contact with rubber materials (rubber gaskets, rubber spacers, etc.).
 - The substrate surface for construction must be clean, dry and free of contaminants.
 - Use within the shelf life; expired product is forbidden for use.
 - Construction shall be implemented strictly in accordance with adhesion test procedures.
 - Avoid direct contact with skin and eyes; do not ingest.
 - Keep away from children and store out of their reach.
 - Trace chemicals will be released during curing. Sufficient ventilation must be maintained at the working site. The fully cured product is non-toxic to human beings.
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- 结构性装配、中空玻璃二道粘接、隐框幕墙。
 - 不建议位移超过 $\pm 25\%$ 的接口密封。
 - 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°C 或超过 40°C 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		0.99±0.03	0.99	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	20	GB/T 13477.5-2002
Extrudability, g/5s		≥20 (Nozzle tip diameter: φ3.2 mm, operating pressure: 0.24 MPa)	34	GB/T 13477.3-2017
Cure rate, mm/24h		≥1.0	3.0	GB/T 13477.22
Elongation at Break, %		≥500	510	GB/T 528-2009
Tensile Strength, Mpa		≥1.4	1.8	GB/T 528-2009
Hardness, Shore A		20-30	28	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		0.99±0.03	0.99	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	20	GB/T 13477.5-2002
挤出性, g/5s		≥20(尖嘴φ3.2mm, 压力 0.24MPa)	34	GB/T 13477.3-2017
固化速度, mm/24h		≥1.0	3.0	GB/T 13477.22
断裂伸长率, %		≥500	510	GB/T 528-2009

拉伸强度, Mpa	≥1.4	1.8	GB/T 528-2009
邵氏硬度, Shore A	20-30	28	GB/T 39693.4-2025