

Product Name

产品名称

SMT-M402 High-Strength Instant Tack No-Nail Adhesive

SMT-M402 高强度即时初粘型免钉胶

Description

描述

SMT-M402 High-Strength Instant Tack Sintered Stone No-Nail Adhesive is an elastic adhesive formulated with specially copolymer-modified silicone rubber resin as the main raw material, combined with other special active additives. After extrusion and exposure to air, the adhesive paste undergoes vulcanization reaction with atmospheric moisture, curing gradually from the surface inward to form an elastomer to achieve bonding effect. It is suitable for vertical bonding and features excellent initial tack and anti-slip performance right after application. The fully cured adhesive bead is tough and elastic, boasting superior mechanical properties including tensile performance, elongation rate, shear strength, adhesion and aging resistance.

This product is indicated for:

- Outdoor applications: wall surfaces, decorative panels, swimming pools
- Indoor applications: decorative boards, panels, skirting boards, mirrors, ceramics and bonding of various substrates

SMT-M402 高强度即时初粘型岩板免钉胶是基于特殊共聚改性有机硅橡胶树脂主体成分加其他特殊活性助剂制备而成的弹性胶粘剂。胶浆挤出接触空气后与空气中的水分会发生硫化反应，由表及里逐步固化成弹性体而发挥作用。适用于垂直粘接，施胶后具有良好的初粘性，抗滑移能力。固化后胶体强韧而富有弹性，具有优异的力学性能，如拉伸性能、伸长率、剪切强度以及粘接性、耐老化性能。

本品适用于：

- 室外：墙面、面板、泳池
- 室内：装饰板、面板、踢脚线、镜子、陶瓷、各类物体粘接

Properties

产品特点

- Solvent-free: Free of harmful substances such as formaldehyde, toluene and isocyanate
- Mildew-proof and antibacterial (no biocide addition required)
- Instant high initial tack
- Bondable on damp surfaces and even underwater
- Excellent anti-staining property and paintable surface
- High bonding strength, superior shear strength and outstanding aging resistance

- 无溶剂：不含甲醛、甲苯、异氰酸酯等有害物质
- 防霉（无需添加杀菌剂），抗菌
- 即时初粘力
- 可在潮湿表面甚至水下粘接

- 表面具有良好的抗污性和可涂饰性
- 高强度，高剪切强度，耐老化能力优异

Applications

产品应用

Before application:

- Compatibility test between the sealant and contact materials as well as adhesion test on substrates to be bonded shall be conducted prior to construction.

Construction Method:

- Clean the substrate surface to ensure it is solid and free of loose debris, dust, mortar residue, grease and other contaminants.
- Apply the adhesive with a caulking gun in beads or dots at intervals of approximately 15 cm.
- Press the bonded pieces firmly together for 3 seconds.
- Do not apply load to the bonded joint within the first 24 hours.

施工前:

- 施工前应进行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:

- 清理基材表面，确保坚实无松动、无浮尘、无砂灰、无油污以及其他异物；
- 使用喷枪涂抹，以珠状或点状形式涂抹，间隔约15厘米；
- 用力按压待粘接物体3秒钟；
- 前24小时内请勿对粘合处施加压力。

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.
 - Do not apply when the substrate surface temperature is lower than 5°C or higher than 40°C.
 - Unsuitable for substrates that exude grease, plasticizers or solvents, such as surfaces of oil-impregnated wood.
 - Not recommended for locations with continuous water immersion or all-year-round high humidity.
 - The bonding surface must be clean, dry and free of dirt and impurities.
 - Use within the shelf life; expired products are forbidden to use.
 - Construction must be carried out in strict 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 working area; the cured adhesive is non-toxic to human bodies.
 - Ambient temperature and humidity will affect the curing speed of the adhesive. Check environmental conditions before construction and make timely adjustments as needed.
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- 不能作为结构密封胶使用。
 - 材料表面温度低于5℃或超过40℃时，不宜施工。
 - 不宜用于会渗出油脂、增塑剂或溶剂的材料，如浸油木材的表面。
 - 不宜用于连续浸水的地方或终年潮湿的地方。
 - 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。
 - 环境温、湿度对胶水固化速度有一定影响，施工前应关注环境变化情况并及时进行管控或调整。

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		3-10 (Nozzle tip diameter: ϕ 3.2 mm, operating pressure: 0.4 MPa)	7	GB/T 13477.4
Density, g/cm ³		1.52±0.03	1.52	GB/T 13477.2-2018
Sag Resistance	vertical, mm	≤3	0	GB/T 14683-2017
Tack-free time, min		5-15	10	GB/T 13477.5
Cure rate, mm/24h		≥2.0	2.5	GB/T 13477.22
Tensile Strength, MPa		≥2.0	2.5	GB/T 528-2009
Elongation at Break, %		≥100	200	
Hardness, Shore A		60-70	68	GB/T 39693.4-2025
Shear Strength, MPa		≥1.5	1.8	GB/T 7124-2008

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		3-10 (尖嘴 ϕ 3.2mm, 压力 0.4MPa)	7	GB/T 13477.4
密度, g/cm ³		1.52±0.03	1.52	GB/T 13477.2-2018
下垂度	垂直, mm	≤3	0	GB/T 13477.6
表干时间, min		5-15	10	GB/T 13477.5
固化速度, mm/24h		≥2.0	2.5	GB/T 13477.22
拉伸强度, MPa		≥2.0	2.5	GB/T 528-2009
断裂伸长率, %		≥100	200	
硬度, Shore A		60-70	68	GB/T 39693.4-2025
剪切强度, MPa		≥1.5	1.8	GB/T 7124-2008