

Product Name

产品名称

SMT-B301 LVT Flooring Adhesive

SMT-B301 LVT 地板胶

Description

描述

The SMT-B301 is an acrylic copolymer emulsion adhesive for LVT sheet flooring. It is suitable for multi-layer LVT flooring, rubber flooring and all types of LVT sheet flooring. It can also be used for carpets with plastic backing. For indoor use only, compatible with underfloor heating systems.

This product is indicated for:

- Suitable for multi-layer LVT flooring, homogeneous flooring, rubber flooring, carpets with plastic backing and other materials.

SMT-B301本品系丙烯酸共聚乳液型LVT片材地板粘合剂，适用于多层式LVT地板，橡胶地板，适用于所有LVT片材地板。也适用于带塑料背衬的地毯。仅限于室内使用，适用于采暖地面。

本品适用于：

- 适用于多层式LVT地板、同质地板、橡胶地板及带塑料背衬的地毯等

Properties

产品特点

- Ready-to-use product, easy to apply
- Suitable for absorbent substrates
- It maintains excellent bonding performance even when flooring is laid after film formation
- Short open time of approx. 10 mins on absorbent substrates under standard ambient conditions
- High peel strength, greater than 1.5 N/mm
- 即开即用型产品，操作方便
- 适用于吸收性基面
- 成膜后铺贴仍保持较好粘接性能
- 吸收性基面标准环境下晒胶较短，约 10min
- 较高的剥离强度，> 1.5N/mm

Applications

产品应用

Before application:

- Prior to construction, perform compatibility tests between this flooring adhesive and contacting materials, as well as adhesion tests on substrates to be bonded.

Construction Method:

- Absorbent Substrates:

The coating operation shall be carried out in an environment controlled at $23 \pm 2^{\circ}\text{C}$ and $50 \pm 5\%$ relative humidity. Using a standard notched trowel (spreader), apply the adhesive evenly at a 60° angle to the substrate surface. The adhesive layer on the substrate shall be uniform, with no missed areas, adhesive buildup, or sagging/running. The coating coverage shall extend 5–10 mm beyond the edges of the flooring panel on all sides to prevent edge starvation (lack of adhesive). During application, the trowel shall be moved consistently in the same direction to minimize the entrapment of air bubbles within the adhesive layer.

After coating, allow the adhesive to open (dwell) for approximately 10–15 minutes to achieve optimal tack for bonding. Then, carefully position the flooring panel onto the adhesive layer in a steady, even manner, avoiding any dragging or sliding that may cause displacement of the adhesive. Subsequently, use a rubber mallet to gently tap the floor panel, working from the center outward toward the edges, in order to expel any trapped air between the adhesive layer and the flooring. The tapping force shall be controlled within the range of approximately 5–10 N.

Within 1–2 hours after laying, use a straightedge (ruler) to check the floor surface flatness. For any panels that have shifted out of alignment, gently tap them with a rubber mallet to adjust, and do not forcibly pry or lever them into place. If edge warping (curling) occurs, place heavy objects on the warped area as weights to hold it down firmly. During the 48 hours immediately following installation, strictly prohibit the following: Repeated walking on the floor; Stacking heavy materials or objects on the floor; Carrying out any other construction operations on the floor. During this 48-hour curing period, inspect the floor condition daily. If any hollow spots (voids/blisters) are detected, re-apply adhesive into the void area in a timely manner to fill and correct.

- Adjustment Methods for Abnormal Temperature and Humidity Conditions on Absorbent Substrates:
 - 1. Low Temperature & High Humidity Environment (Temperature < 15°C, Humidity > 60%)
 - 1.1 The optimal open (dwell) time for adhesive application shall be extended to 20–30 minutes.
 - 1.2 The initial fixing (setting) time shall be extended to 2–3 hours, and the adjustment window for repositioning floor panels shall be appropriately postponed accordingly.
 - 2. High Temperature & Low Humidity Environment (Temperature > 30°C, Humidity < 40%)
 - 2.1 No open/dwell time is required after adhesive application; flooring installation shall proceed immediately within 0–5 minutes.
 - 2.2 It is recommended to apply adhesive for no more than 1 m² at a time, followed by immediate laying of the corresponding floor panels within that area.

施工前:

- 施工前应进行地板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:

- 吸收性基面:

推荐选择在23±2°C, 50±5%环境下进行涂布。用标准涂布梳齿刀以基面成60°角均匀涂布胶液, 使基材表面胶层均匀、无漏涂、堆胶及流挂现象。涂布范围需比地板边缘宽5-10mm, 避免边缘漏胶。涂布时按同一方向操作, 减少胶层气泡产生。

涂布后预计晒胶10-15分钟达到最佳粘贴效果, 然后将地板与胶层平稳贴合, 避免拖拽导致胶层移位, 接着用橡皮锤从地板中心向四周轻敲, 以便排出胶层与地板间的气泡, 力度控制在5-10N为宜。

铺贴后1-2h, 用靠尺检查地面平整度, 对偏移的地板, 用橡皮锤轻敲调整, 禁止强行撬动。若出现翘边, 在翘边处压放重物固定。铺贴后48h内严禁在地板上反复行走, 堆放重物或进行其他施工操作。期间, 每天检查地板状态, 若出现空鼓, 及时在空鼓处补涂胶液。

- 吸收性基面异常温湿度调整方式:
 - 1. 低温高湿环境 (温度 < 15°C, 湿度 > 60%)
 - 1.1 最佳铺贴时间延长至20-30分钟。
 - 1.2 初步固定时间延长至2-3h, 调整地板的窗口期适当延后。
 - 2. 高温低湿环境 (T > 30°C, 湿度 < 40%)
 - 2.1 涂布后无需等待 0-5min内立即进入地板铺贴环节。
 - 2.2 建议每涂布1m²就铺贴对应地板。

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 suitable for damp or rising-damp substrates (e.g., basements lacking a damp-proof course, or concrete with excessive moisture content).
 - The application temperature shall not be lower than 5°C nor higher than 40°C.
 - It shall not be used in areas subject to prolonged water immersion / persistently high humidity, or in zones exposed to intense direct sunlight and high temperatures.
 - It shall not be used in combination with strong solvents, acids, alkalis, or curing agents.
 - The substrate surface shall be kept clean, dry, and free from any contaminants (dirt, grease, oil, or other residues) prior to application.
 - The product shall be used within its shelf life. Expired products shall not be used.
 - Application shall be carried out strictly in accordance with the procedures established in the bonding test (adhesion test).
 - Avoid direct contact with skin and eyes. Do not ingest.
 - Keep out of reach of children.
 - Ventilate work area during curing – product releases trace chemicals; non-toxic after curing.
 - Ambient temperature and humidity have a certain influence on the curing rate of the adhesive. Prior to construction, attention shall be paid to changes in environmental conditions, and timely control or adjustment measures shall be implemented accordingly.
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- 不宜用于潮湿、返潮基面（如地下室未做防潮层、含水率超标的混凝土）。
 - 施工温度不宜低于5℃、不宜高于40℃。
 - 不宜用于持续浸水/高湿区域、强日晒高温区。
 - 不宜与强溶剂、酸碱、固化剂配合适用。
 - 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

The product is available in a range of standard colors, including beige and white, and can be customized to other colors upon request. It is supplied in 21 kg pails (drums), or in other packaging sizes according to customer requirements.

本产品常规颜色：米黄色、白色等各种颜色，均可调制。本产品采用21kg/桶或根据客户实际需求。

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		Uniform gel without lumps or particles	Uniform gel without lumps or particles	JC/T 550-2019
Density, g/cm ³		1.37±0.03	1.37	GB/T 13477.2-2018
Spreadability		The adhesive is easy to spread, and the comb marks remain distinct after troweling	The adhesive is easy to spread, and the comb marks remain distinct after troweling	JC/T 550-2019
90° Peel Strength , N/mm	Standard Conditions	≥1.0	1.9	JC/T 550-2019
	After heat treatment	≥1.0	1.5	
Shear bond strength, MPa	Standard Conditions	≥0.3	1.2	JC/T 550-2019
	After heat treatment	≥0.3	1.1	
Dimensional change after accelerated aging, %		≤0.2%, and the test specimens shall show no abnormal phenomena such as blistering, delamination, or debonding.	0.1%, and the test specimens shall show no abnormal phenomena such as blistering, delamination, or debonding.	JC/T 550-2019
TVOC, g/L	bulk	≤100	95	GB 18583-2008 Appendix F
Coating weight, g/m ²		400-450	400	Company Standard

检测项目	技术指标	典型数据	检测标准	
外观	胶体均匀，无团块颗粒	胶体均匀，无团块颗粒	JC/T 550-2019	
密度, g/cm ³	1.37±0.03	1.37	GB/T 13477.2-2018	
涂布性	容易涂布，刮涂后梳齿不零乱	容易涂布，刮涂后梳齿不零乱	JC/T 550-2019	
90° 剥离强度，	标准状态	≥1.0	1.9	JC/T 550-2019

N/mm	热处理后	≥ 1.0	1.5	
剪切强度, MPa	标准状态	≥ 0.3	1.2	JC/T 550-2019
	热处理后	≥ 0.3	1.1	
加速老化后尺寸变化率, %		$\leq 0.2\%$, 并且试件无起鼓、 脱胶等异常现象	0.1%, 且试件无起鼓、脱胶 等异常现象	JC/T 550-2019
总挥发性有机物, g/L	本体型	≤ 100	95	GB 18583-2008 附 录 F
涂布量, g/m ²		400-450	400	企标