

Product Name

产品名称

SMT -M107 Single-component MS Waterproof Coating for Interior Use
SMT-M107 单组分室内用 MS 防水涂料

Description

描述

SMT-M107 Single-component MS Waterproof Coating for Interior Use is a single-component, moisture-curing polymeric non-exposed waterproofing material. It is applicable to building substrate surfaces. After curing, it forms an elastic waterproof layer with high strength, hydrophobicity, weather resistance, and excellent high & low temperature resistance. This material boasts the characteristics of being solvent-free, low in volatility, low in odor, and eco-friendly.

This product is indicated for:

- Suitable for waterproofing and moisture-proofing of bathrooms, kitchens, balconies, water pools and other areas;
- Waterproofing of wet areas such as basements.

SMT-M107单组分室内用MS防水涂料是一种单组分湿气固化高分子非外露防水材料，适用于建筑基材面，固化后形成一层高强度、疏水、耐候、耐高低温的弹性防水层。这种材料具有无溶剂、低挥发性、低气味、与环境友好等特点。

本品适用于：

- 适用于卫生间、厨房、阳台、水池等部位的防水、防潮。
- 地下室等湿区防水。

Properties

产品特点

- Solvent-free: free from harmful substances including formaldehyde, toluene and isocyanate;
 - Easy to apply: single-component coating, no pre-mixing required, convenient for on-site construction;
 - Outstanding low-temperature resistance: after curing, it maintains excellent flexibility and no cracking even at -40°C;
 - Strong adhesion: excellent adhesion to various substrates such as concrete, stone, metal, glass, aluminum panels and wood;
 - Excellent water resistance: no debonding after long-term water immersion.
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- 无溶剂：不含甲醛、甲苯、异氰酸酯等有害物质；
 - 操作简易：单组分涂料，无需调配，施工便捷；
 - 耐低温好：固化后在-40℃环境下，依然具有良好的柔韧性，不开裂；
 - 附着力强：对混凝土、石材、金属、玻璃、铝板、木材等具有优秀的附着力；
 - 耐水性：长时间泡水不脱胶。

Applications

产品应用

Before application:

- Compatibility tests between the coating and adjacent materials, as well as adhesion tests to the substrate to be bonded, shall be conducted prior to construction.

Construction Method:

- Clean the substrate surface to ensure it is firm, free from looseness, floating dust, loose mortar, oil stains and other foreign matters;
- Cracks and defects shall be repaired first. Fully wet the substrate before coating application, and ensure no standing water remains on the surface;
- For detail positions such as internal and external corners and pipe roots, cut polyester fabric according to the shape to make reinforcement layers, so as to avoid hollowing and cracking;
- It can be applied by scratch coating or mechanical spraying. It is recommended to apply in one coat to reach the designed thickness.
- Laying of protective layer or finishing material shall be carried out after the coating film is fully cured. Prevent sharp objects from puncturing the coating during construction.

施工前：

- 施工前应进行涂料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；
- 有裂缝缺陷应先进行修复，涂抹施工前充分润湿基层且无明水；
- 阴阳角、管根等细节点根据形状剪裁聚酯布，做加强层，避免空鼓开裂；
- 可用刮涂法或机械喷涂等方式施工，建议一遍施工至设计厚度；
- 铺贴保护层或饰面材料，需在涂膜完全固化后进行。施工时应防止尖锐的物品刺破涂层。

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

- Use the product within shelf life; expired goods are prohibited.
- Construct 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.
- It is not suitable for use in airtight spaces, as the coating cures by absorbing moisture from the air.
- Application is not recommended when the substrate surface temperature is below 5°C or above 40°C.
- Not suitable for surfaces covered with frost or standing water.
- When bonding to cement or concrete substrates, ensure the substrate is fully dry and cured for 7 days before application; otherwise, adhesion performance will be affected.
- Not suitable for materials that may exude oils, plasticizers or solvents, such as oil-impregnated wood.
- 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。
- 不宜用于密不通风的场所，因为涂料需吸收空气中的水分固化。
- 材料表面温度低于5°C或超过40°C时，不宜施工。
- 不宜用于结霜或有明水的表面。
- 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。
- 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。

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 standard color of this product is gray, and custom color matching is available. The product is normally packaged in 23.6kg drums, and packaging specifications can be customized according to customers' actual requirements

本产品常规颜色为灰色，可调制，产品采用 23.6kg/桶包装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 Item	Technical Requirement	Typical data	Test Method
Appearance	Uniform gray fluid	Uniform gray fluid	Visual inspection
Density, g/cm ³	1.56±0.03	1.56	GB/T 13477.2
Viscosity, mPa·s	10000-20000	15000	GB/T 22235-2008
Tack-free Time, h	≤4	1	TCBMF105-2021 TCWA203-2021
Dry-through Time, h	≤8	6	TCBMF105-2021 TCWA203-2021
Solid Content, %	≥98	98	TCBMF105-2021 TCWA203-2021
Low-temperature Flexibility	-40°C, no crack	-40°C, no crack	TCBMF105-2021 TCWA203-2021
Water Impermeability	0.3MPa, 2h, no crack	0.3MPa, 2h, no crack	TCBMF105-2021 TCWA203-2021
Tensile Strength, MPa	≥1.0	1.1	GB/T 528-2009
Elongation at Break, %	≥400	450	GB/T 528-2009
Coating Consumption, kg/m ² ·mm	1.5-1.7	1.6	Enterprise Standard

检测项目	技术指标	典型数据	检测标准
外观	均匀灰色流体	均匀灰色流体	目测
密度, g/cm ³	1.56±0.03	1.56	GB/T 13477.2
粘度, mpa.s	10000-20000	15000	GB/T 22235-2008
表干时间, h	≤4	1	TCBMF105-2021 TCWA203-2021
实干时间, h	≤8	6	TCBMF105-2021 TCWA203-2021
固体含量, %	≥98	98	TCBMF105-2021 TCWA203-2021
低温柔性	-40°C, 无裂纹	-40°C, 无裂纹	TCBMF105-2021 TCWA203-2021
不透水性	0.3Mpa, 2h, 无裂纹	0.3Mpa, 2h, 无裂纹	TCBMF105-2021 TCWA203-2021
拉伸强度, MPa	≥1.0	1.1	GB/T 528-2009
断裂伸长率, %	≥400	450	GB/T 528-2009
涂布量, kg/m ² *mm	1.5-1.7	1.6	企标