

Product Name

产品名称

SMT -B100 Waterborne Polyurethane Waterproof Coating
SMT- -B100 水性聚氨酯防水涂料

Description

描述

SMT-B100 Waterborne Polyurethane Waterproof Coating is an eco-friendly single-component water-based waterproof coating. It uses polyacrylate emulsion as the base material, is formulated with various functional additives, and adopts water as its dispersion medium. It features excellent film elongation, storage stability, film mechanical properties, water resistance, solvent resistance and aging resistance, as well as outstanding low-temperature performance. It is a waterproof coating applicable to all types of engineering projects in the current market. This coating is free from solvent pollution. It forms a cured film through water evaporation and polymer coalescence, and is convenient for on-site construction.

This product is indicated for:

- Flat, pitched and various irregular roofs of industrial and civil buildings, especially decorative roofs and sports grounds;
- Anti-seepage and sealing works for subways, tunnels, passages, water pools, expansion joints, construction joints, deformation joints, roof gutters and all kinds of water conservancy projects;
- It can also be used for repairing building cracks and sealing expansion joints.

SMT-B100 水性聚氨酯防水涂料是以聚丙烯酸酯乳液为基料，与其它各种添加助剂制得的一种以水为分散介质环保单组份水性防水涂料。具有良好的涂膜延伸性能、贮存稳定性、涂膜机械性、耐水性、耐溶剂性及耐老化性，耐低温性能优异，是当前市场适用于各类工程的防水涂料。该涂料无溶剂污染，水分挥发聚合物粘连后成膜固化，使用方便。

本品适用于：

- 工业与民用建筑的平、斜屋面及各种不规则的屋面，特别是要求带装饰性的屋面及运动场；
- 地铁、隧道、通道、水池、伸缩缝、施工缝、变形缝、天沟及各种水利工程的防渗和密封；
- 可作建筑物裂缝的修补，膨胀结合处的密封。

Properties

产品特点

- High elongation, good tensile strength, excellent high & low temperature resistance, aging resistance and corrosion resistance;
 - Solvent-free, eco-friendly and pollution-free;
 - High solid content, high film formation rate and material-saving;
 - Customizable colors with excellent waterproof and decorative performance;
 - Outstanding water resistance, no debonding after long-term water immersion.
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- 高延伸，抗拉强度良好，耐高低温，耐老化，耐腐蚀；
 - 无溶剂，环保无污染；
 - 固体含量高，成膜率大，省料；
 - 颜色可定制，防水装饰效果好；
 - 耐水性好，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. Multiple coats are recommended to reach the designed thickness. The next coating can be carried out only after the previous coat is dry and non-sticky to touch;
- 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。建议多遍施工至设计厚度，前次施工不粘手干固后方可进行下次涂覆；
- 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 recommended to apply the coating in environments with relative humidity higher than 80% (> 80%RH), as the coating cures through water evaporation.
- 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。
- 不宜在高湿 > 80%RH的环境下施工，因为涂料需水分挥发后固化。
- 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 20kg 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 20kg/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	1.43±0.03	1.45	GB/T 13477.2
Viscosity, mPa·s	3000-6000	4500	GB/T 22235-2008
Tack-free Time, h	≤4	1	JC/T 864-2023
Dry-through Time, h	≤8	6	JC/T 864-2023
Solid Content, %	≥65	68.5	JC/T 864-2023
Low-temperature Flexibility	-10°C, no crack	-10°C, no crack	JC/T 864-2023
Water Impermeability	0.3MPa, 2h, no crack	0.3MPa, 2h, no crack	JC/T 864-2023
Tensile Strength, MPa	≥1.0	1.1	GB/T 528-2009
Elongation at Break, %	≥300	330	GB/T 528-2009
Coating Consumption, kg/m ² ·mm	2.0-2.2	2.1	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	1.43±0.03	1.45	GB/T 13477.2
粘度, mpa.s	3000-6000	4500	GB/T 22235-2008
表干时间, h	≤4	1	JC/T 864-2023
实干时间, h	≤8	6	JC/T 864-2023
固体含量, %	≥65	68.5	JC/T 864-2023
低温柔性	-10°C, 无裂纹	-10°C, 无裂纹	JC/T 864-2023
不透水性	0.3Mpa, 2h, 无裂纹	0.3Mpa, 2h, 无裂纹	JC/T 864-2023
拉伸强度, MPa	≥1.0	1.1	GB/T 528-2009
断裂伸长率, %	≥300	330	GB/T 528-2009
涂布量, kg/m ² *mm	2.0-2.2	2.1	企标