

TECHNICAL DATA SHEET

Water-Based PU Waterproof Coating

Product Description

Single-component, water-based polyurethane waterproof coating designed for high-performance waterproofing in extreme climates. Forms a seamless, flexible, UV-resistant membrane after curing. Suitable for roofs, terraces, balconies, and foundations exposed to temperatures from -30 deg C to +80 deg C. Environmentally friendly, low VOC, no toxic solvents.

Technical Properties

Property	Value
Appearance	White / Grey viscous paste
Solid Content	$\geq 62\%$
Tensile Strength	≥ 1.8 MPa
Elongation at Break	$\geq 450\%$
Tear Strength	≥ 6.5 N/mm
Bonding Strength	≥ 1.0 MPa
Water Impermeability	0.3 MPa, 30 min, no leakage
Low Temperature Flexibility	-30 deg C, no cracking
Heat Resistance	+80 deg C, 2h, no flow
Drying Time (Surface)	Approx. 4 hours (23 deg C)
Drying Time (Full Cure)	Approx. 24 hours (23 deg C)
Coverage Rate	1.5 - 2.0 kg/m ² per coat
Recommended Coats	Minimum 2 coats
VOC Content	≤ 50 g/L

Recommended Applications

- Flat roofs and terraces (new construction and renovation)

- Balconies

Surface Preparation

Surface must be clean, dry, structurally sound, and free of dust, oil, grease, curing agents, and loose particles. Remove any existing failed coatings. Fill cracks wider than 2mm with compatible filler. Dampen porous concrete surfaces but avoid standing water. Apply Fansen Sand Fixing Agent on weak or powdery substrates to improve bonding.

Application Method

Stir thoroughly before use. Do not dilute. Apply by brush, roller, or airless spray. Apply first coat evenly at 1.0-1.5 kg/m². Allow to dry until tack-free (approx. 4-6 hours depending on temperature and humidity). Apply second coat perpendicular to the first at 1.0-1.5 kg/m². For high-traffic areas or ponding water conditions, apply a third coat or embed reinforcing mesh between coats. Do not apply

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when surface temperature is below 5 deg C or above 40 deg C, or when rain is expected within 24 hours.

Storage & Shelf Life

Store in original sealed containers in a cool, dry, ventilated area at 5-35 deg C. Protect from frost and direct sunlight. Shelf life: 12 months from date of manufacture when stored properly. Once opened, reseal tightly and use within 30 days.

Health & Safety

Water-based, low toxicity, low odor. Wear protective gloves and safety glasses during application. Ensure adequate ventilation in enclosed spaces. Avoid contact with eyes and prolonged skin contact. In case of eye contact, rinse immediately with clean water. Keep out of reach of children. Refer to Safety Data Sheet (SDS) for complete safety information.

Standards & Compliance

GB/T 19250-2013 (Polyurethane Waterproof Coating)

JC/T 408-2005 (Water-based Waterproof Coating)

Compliant with REACH and RoHS requirements

Disclaimer: The information provided in this Technical Data Sheet is based on our current knowledge and experience. It is the responsibility of the user to ensure suitability for their specific application. Fansen recommends on-site testing before large-scale use. Values shown are typical results from laboratory testing and should not be taken as specifications.