

DESCRIPTION

YHPUcoat-8130 is a single-component, solvent-free, cold-applied, moisture-cured flexible polyurethane waterproofing membrane. As for its extremely low emissions it is suitable for non-exposed indoor waterproofing projects, especially in areas with limited ventilation or sensitivity to strong odors.

WHERE TO USE

Recommended for indoor waterproofing projects where odor sensitivity and limited ventilation are concerns. Ideal for applications requiring low VOC emissions and high environmental standards.

CHARACTERISTICS AND PACKAGING

Item	Data
Appearance	Viscous Liquid
Viscosity	9000±2000 cp
Color	Blue
Density	1.40-1.50 kg/L
Solid Content by Weight	≥99.5 %
Pot life	4 h
Packing Size	20 kg per metal pail

ADVANTAGES

- Cold-Applied & Moisture-Cured: No mixing, heating, or open flame required.
- Ultra Eco-Friendly: Solvent-free with no free TDI, ensuring minimal environmental impact.
- Maintains elasticity even at cold climate.
- Strong adhesion to various substrate.

PROPERTIES

Description	Test Methods	Typical Values
VOC / (g/L)	ASTM D2369	≈6
Tensile Strength / MPa	ASTM D412	≥2.0
Elongation at Break / %	ASTM D412	≥450
Tear Strength / N/mm	ASTM D624	≥18
Pull-off Adhesion to Concrete / MPa	ASTM D7234	≥1.2
Shore A Hardness	ASTM D2240	≈60
Water Penetration Test (5 bar, 3 days)	DIN 1048-5	No Penetration
Low Temperature Flexure (-35°C)	ASTM D522	No Cracks
Set-to-Touch Time / h	ASTM D1640	≈5

Note: The above data were tested under standard conditions (temperature $23\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$, relative humidity $50\% \pm 10\%$).

APPLICATION INSTRUCTIONS

Application information

Items	Description
Consumption*	1.5-1.6 kg / m ² for 1mm dry film
Coverage	8-9 m ² /set (20kg) at 1.5mm dry film thickness
Recommended thickness	1.4-1.6 mm by 2 coats 1.1-1.2 kg / m ² / coat at 0.7-0.8 mm dry film thickness
Ambient air temperature	5 °C min / +40 °C max
Relative air humidity	<85%
Substrate temperature	5 °C min. / +40 °C max. ≥ 3 °C above dew point, beware of condensation

*Material consumption depends on the porosity and texture of the substrate.

Application Instructions

- **Substrate preparation:** The concrete substrate should be clean, dry, sound, and free of all contaminants such as dirt, oil, and grease. Surface defects such as blowholes and voids must be repaired. Filling of joints and surface leveling must be carried out before coating. Priming of good-quality and dense concrete is not necessary.
- **Detailing:** Firstly, install the coating at detail areas like deformation joints, water outlets, and concave/convex corners. Install fabric reinforcement between two wet coats to ensure thorough penetration. The total thickness of the composite coating layer should be at least 1 mm.
- **Coating application:** It is recommended to apply two coats to build the required thickness. Apply each coat using a notched squeegee or trowel, extending the coat over the entire area, including previously detailed joints and cracks. Recoat time is normally 12-24 hours, while low temperature or humidity may extend the waiting time.
- **Post-treatments:** Seal the coating edges with sealant if necessary. For waterproofing beneath tiles, after the last layer of coating has been cured, apply another coat of YHPUcoat-8130 broadcast with quartz sand as a bonding bridge. Apply tile adhesives and bond them to the coating surface after removing loose and excessive sand. For other general non-exposed projects, a protective layer of concrete can be laid on the waterproof coating after a successful watertight test.

TRANSPORTATION AND STORAGE

The product should be stored in ventilated places, with no exposure to sunlight, rain, or fire. Avoid collisions during transportation. The storage temperature should be between 5°C and 30°C. The shelf life is a minimum of 12 months under normal transportation and storage conditions.

PRECAUTIONS

- Material would discolor and chalk under long-term UV irradiation.

YHPUcoat-8130

Low-VOC Polyurethane Waterproofing Coating



Technical Data Sheet (TDS)

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- Dilution of YHPUcoat-8130 with organic solvent is forbidden. Condition material to temperatures above 30°C would further reduce viscosity and facilitate application.
- Direct application on bituminous materials may result in coating discolor and/or bituminous material softening.
- Do not apply YHPUcoat-8130 directly on plastic drinking water pipelines.

HEALTH AND SAFETY

Please read the safety manual carefully. Our security experts will be pleased to give you advice about safety, health, and environmental issues.

DISCLAIMER

The above information and recommendations which are based on our experience are as for reference, they can't replace the customers' own experimental results. Since our company, our representatives or distributors can't control the transportation, storage, handling and use conditions of the products, the economic disputes and the quality accident caused by improper use can't be attributed to our suggest. In any application, the customer shall be responsible to comply with obligations of third-party intellectual property rights. Without our consent, anyone shall not provide technical information to third parties.