

DESCRIPTION

YHPUcoat-8200 is a single-component, cold-applied, moisture-cured aromatic polyurethane waterproofing membrane. It cures to form a seamless and robust waterproofing layer intended for use as the base coat under an aliphatic polyurethane top coat (e.g., YHPUroof-8201 or YHPUroof-8401) or under a separate wearing course of concrete, for medium-to-heavy pedestrian traffic applications.

WHERE TO USE

YHPUcoat-8200 is recommended as a waterproof base coat under a cementitious or concrete protective layer for mechanical rooms, plazas, and other important buildings. It can also be coupled with an aliphatic high-performance polyurethane top coat, such as YHPUroof-8201 or YHPUroof-8401, for footbridges, balconies, terraces, and other exposed waterproof projects with medium-to-heavy pedestrian traffic.

CHARACTERISTICS AND PACKAGING

Item	Data
Appearance	Viscous Liquid
Viscosity/cp	8000±3000
Color	Grey
Density/kg/L	1.30-1.40
Solid Content by Weight	86-88 %
Pot life/h	2
Packing Size	25 kg per metal drum

ADVANTAGES

- Cold-applied and moisture-cured; no mixing, heating, or flame is required.
- Excellent crack-bridging properties and flexibility, even at low temperatures.
- Resistant to water, deicing salts, diluted acid, and alkaline.
- Good adhesion to most substrates.

PROPERTIES

Description	Test Methods	Typical Values
VOC / (g/L)	ASTM D2369	≈190
Tensile Strength / MPa	ASTM D412	≥6.0
Elongation at Break / %	ASTM D412	≥450
Tear Strength / N/mm	ASTM D624	≥30
Pull-off Adhesion to Concrete / MPa	ASTM D7234	≥2.0
Shore A Hardness	ASTM D2240	≈70
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	3

APPLICATION INSTRUCTIONS

Application information

Items	Description
Consumption*	1.5-1.7 kg / m ² for 1mm dry film
Coverage	8-10 m ² /set (25kg) at 1.5mm dry film thickness
Recommended thickness	1.2-1.5 mm by 2 coats 1.2-1.3 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 substrate should be clean, dry, sound and free of all contamination such as dirt, oil and grease. Concrete surface defects such as blowholes and voids must be repaired. Concrete should be cleaned and prepared to achieve a laitance-free, open textured surface by blast cleaning or other mechanical means if necessary. Filling of joints and surface leveling must be carried out before coating. It is recommended to use epoxy primer to block cementitious substrate for coating pinhole prevention.
- Detailing:** Firstly install coating at detail spots like construction joint, water outlet, concave and convex corners. For wide cracks, use sealant to skin over and install fabric reinforcement between two wet coats to ensure thorough penetration and full embedment. The total thickness of composite coating layer should be 1mm at least.
- Coating application:** Apply at the recommended coverage rate using a notched squeegee or trowel. Extend coat over entire area including previously detailed joints and cracks. Recoat time is normally 8-12 hours, while low temperature or humidity would extend waiting time.
- Post-treatments:** Sealing the coating edges with sealant if necessary. For non-exposed waterproof projects, protective layer of concrete can be laid on waterproof coating after successful water-tight test. For exposed projects, aliphatic top coat can be applied once YHPUCoat-8200 is tack-free.

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 at least 9 months under normal transportation and storage conditions.

PRECAUTIONS

- YHPUcoat-8200 is not recommended for direct contact with water in permanent immersion applications.
- YHPUcoat-8200 is not UV stable and may discolor under UV irradiation.
- Be cautious of substrate out-gassing effects when priming or coating during rising temperatures.

- Always dilute YHPUcoat-8200 with high discretion. Impurities in an unknown thinner may impede coating curing.
- Apply YHPUcoat-8200 only when ventilation is effective. Do not apply near the air intake vent of a running air circulation system.
- When applying over existing coatings, compatibility and adhesion tests are necessary.
- Water that has contacted cured YHPUcoat-8200 is prohibited for drinking and aquaculture purposes.
- Do not apply YHPUcoat-8200 directly on plastic drinking water pipelines or on bituminous materials.

HEALTH AND SAFETY

Please read the safety manual carefully, our security experts will be pleased to give you advises 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.