

# YHPUcoat-8118

## One-Component Water-based Polyurethane Waterproof Coating



### Technical Data Sheet (TDS)

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## DESCRIPTION

YHPUcoat-8118 is a water-based, fast curing, polyurethane-modified waterproofing membrane specially formulated for both internal and external application. It is designed for use in areas that will be subsequently covered with toppings, tile beds, or overlay finishes. This product features rapid drying properties, enabling short recoating intervals and fast project turnover. It exhibits excellent flexibility, elasticity, effective vapor resistance, and good water resistance, making it ideal for long-term water immersion scenarios.

## WHERE TO USE

Suitable for new buildings and refurbishment projects without exposed waterproofing requirements, such as bathrooms, kitchens, pools, water parks, etc.

## CHARACTERISTICS AND PACKAGING

Item	Data
Appearance	Viscous Liquid
Color	4 Colors: White, Blue, Grey, Green
Density	1.4-1.6 kg/L
Solid Content by Weight	63-68 %
Packing Size	20 kg per plastic pail

## ADVANTAGES

- Water-based, safe and environmentally friendly, low VOC.
- High Elasticity & Crack Bridging: Over 500% elongation, effectively prevents water ingress.
- Suitable for long-term water immersion.
- Strong adhesion to various substrate.

## PROPERTIES

Description	Test Methods	Typical Values
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
Water Vapor Transmission / g/m <sup>2</sup> ·24h	ASTM E96	≈12 g/m <sup>2</sup> ·24h
Low Temperature Flexure (-35℃)	ASTM D522	No Cracks
VOC g/L	ISO 11890-2:2020	≈0

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*	2.2-2.6 kg / m <sup>2</sup> for 1mm dry film
Coverage	5-6 m <sup>2</sup> /pail of 25kg at 1.5mm dry film thickness
Recommended thickness	1.4-1.6 mm by 2-3 coats 0.8-1.8 kg / m <sup>2</sup> / coat at 0.3-0.8 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

- **General Requirements:** The construction temperature should be between 5°C and 35°C. Outdoor construction is prohibited on rainy and snowy days.
- **Substrate treatment:** The substrate should be flat, solid, clean, free of visible water, floating ash, and oil stains. The substrate should be wetted sufficiently, but without standing water.
- **Detailing:** Apply additional layers (highly recommend using the YHTape series prefabricated strengthening tape) to detailed areas such as internal and external corners, pipe roots, and drainage outlets in 2-3 coats. Sandwich reinforcing materials between the coats to ensure the waterproof coating fully penetrates the tire layer without wrinkles or edges.
- **Coat application:** Apply the large surface waterproof layer first to the facade, then to the flat surface, in 2-3 coats. The next coat can only be applied after the previous one is dry, and the painting direction should be perpendicular to the previous direction.
- **Construction of protective isolation layer:** Under humid environmental conditions, the drying speed of the product will slow down, and the drying time should be appropriately extended. After the waterproof layer is completely dry, subsequent construction can proceed according to the design requirements (such as protective isolation layer construction, tile laying, etc.).

## TRANSPORTATION AND STORAGE

- During transportation, anti-freezing measures should be taken to prevent exposure to sunlight, rain, compression, and collision, and to ensure the packaging remains intact and undamaged.
- It should be stored in a cool, ventilated, and dry warehouse, protected from rain and direct sunlight, and kept away from fire sources.
- The storage temperature should be between 5°C and 35°C.
- Under normal storage and transportation conditions, the shelf life is 12 months.

## PRECAUTIONS

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- The construction temperature should be between 5°C and 35°C, and construction is forbidden on rainy or snowy days.
- Before the coating is fully dried, it should be covered and protected if exposed to rainwater.
- Stir the product evenly before use.
- Products generally do not require the addition of water. If water needs to be added, please contact technical personnel in advance.
- Please follow the instructions provided by Yuhong before construction. To obtain more information, please read the product safety manual before starting work.

### 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.*