

DESCRIPTION

YHColorWall-8108 is a cold-applied, one-component waterborne liquid applied waterproofing membrane with highly elastic and UV resistant. It is composed of water-based polyurethane dispersion, combined with additives, pigments, and fillers. This product delivers excellent weather resistance and construction properties, integrating the outstanding mechanical characteristics of solvent-based polyurethane waterproof coatings with the environmental advantages water-based waterproof coatings. It offers multicolor options and can serve as both waterproofing and finishing layer for exterior walls.

WHERE TO USE

Suitable for new construction and renovation projects that require exposed waterproofing, such as concrete roofs, tiled roofs, and exterior walls.

CHARACTERISTICS AND PACKAGING

Item	Data
Appearance	Viscous Liquid
Color	7 Colors
Density	1.4-1.6 kg/L
Solid Content by Weight	63-68 %
Package	Plastic drum
Packing Size	20 kg per drum

ADVANTAGES

- Odorless, without adding any organic solvents, low VOC content.
- Excellent weather resistance.
- Excellent physical and mechanical properties, and highly elastic and crack-bridging.
- Good bonding property, strong adhesion to porous and non-porous substrate .
- Excellent water and corrosion resistance .
- Excellent low temperature flexibility: -35 °C low temperature bending without cracking .
- Good construction performance: one component, out of the box for use on-site, easy construction.

PROPERTIES

Description	Test Methods	Typical Values
Tensile Strength / MPa	ASTM D412	≥2.0
Elongation at Break / %	ASTM D412	≥500
Tear Strength / N/mm	ASTM D624	≥20
Pull-off Adhesion to Concrete / MPa	ASTM D7234	≥1.2
Shore A Hardness	ASTM D2240	≈60
Water Permeability (5 bar, 3 days) / mm	BS EN 12390-8	≈0
Water Vapor Transmission / g/m ² ·24h	ASTM E96	≈42
Low Temperature Flexibility (-35°C)	ASTM D522	No Cracks

Technical Data Sheet (TDS)

2 / 3

Thermal conductivity / [W/(m·K)]	ASTM D5930	≈0.4
VOC g/L	ISO 11890-2	≈0
UV Exposure (Xenon Arc Lamps) - 3000 hours	BS EN ISO 16474-2	No visual change

Note: The above data were tested under standard conditions (temperature 23 °C ± 2 °C, relative humidity 50% ± 10%).

APPLICATION INSTRUCTIONS

Application information

Items	Description
Consumption*	2.2-2.6 kg / m ² for 1mm dry film
Coverage	5-6 m ² /set (20kg) at 1.5mm dry film thickness
Recommended thickness	1.4-1.6 mm by 2-3 coats 0.8-1.8 kg / m ² / 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 preparation:** The substrate should be flat, solid, clean, free of visible water, floating ash, and oil stains. Perform rounded corner treatment on the inside and outside corners and the base of the penetrations.
- **Detailing:** Apply additional layers to detailed areas such as inside and outside 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, conduct a closed water test. After passing the acceptance, 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.

YHColorWall-8108

Exposed Multicolor Water-based Polyurethane Waterproof Coating



Technical Data Sheet (TDS)

3 / 3

- The storage temperature should be between 5°C and 35°C.
- Under normal storage and transportation conditions, the shelf life is 12 months.

PRECAUTIONS

- 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.