YHColorWall-5300

UV-Resistant Elastic Water-based Waterproofing Coating





DESCRIPTION

YHColorWall-5300 is a cold-applied, one-component waterborne liquid waterproofing membrane. It is formulated with a saturated, highly elastic and UV-resistant polymer emulsion. This membrane provides a cost-efficient solution for extending the life cycle of deteriorating exterior walls and roofs. As a reflective coating, it enhances energy efficiency by reducing cooling costs.

WHERE TO USE

It is suitable for waterproofing projects in both new construction and refurbishment, covering new and old exterior wall and roof surfaces, such as concrete, stucco, unit masonry, steel, or compatible cementitious substrate.

CHARACTERISTICS AND PACKAGING

Item	Description
Packaging	20 kg pail
Density	1.35kg/L
Solid contents by weight	65%
Solid contents by volume	60%
Product Color	White/Blue/Grey/Red/Green

ADVANTAGES

- High strength and high elasticity
- Cold applied - requires no heat or flame
- Seamless waterproofing membrane
- UV resistant and UV stable
- Highly elastic and crack-bridging
- Easily recoated when needed - no stripping required
- Economic, provides a cost efficient life cycle extension for failing roofs
- Easy to apply, one component, ready to use.
- Water based and non-toxic, low VOC emitting water-based coating

PROPERTIES

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Technical Data Sheet (TDS)

Description	Test Methods	Values
Tensile Strength / MPa	ASTM D412	≥2.5
Elongation at Break / %	ASTMD412	≥550
Tensile Bond Strength /MPa	BS EN 1542	≥1.20
Low Temperature Bend / (-30℃, no crack)	ASTM D522	No crack
Behavior after Artificial Weathering (Xenon Arc Lamps) - 720 hours	BS EN ISO 16474-2:2013+A1:2022	No visual change
VOC / g/L	ASTM D2346	≈0
Thermal Emittance	ASTM C1371	0.9
Solar Reflectance	ASTM E903	82%
SRI	ASTM E1980	103

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

APPLICATION

Application Information

Ambient Air Temperature	+5 °C min. / +35 °C max.
Substrate Temperature	+5 °C min. / +35 °C max.
Substrate Moisture Content	≤ 4%
Waiting Time/Over coating	Minimum 2-3hours at +30°C
	Maximum 1 day at +30°
Applied Product Ready for Use	72 hours at +30°C
Consumption & Coverage	for wall: 2kg/ m^2 for roof: 3kg/ m^2

Application Instruction

Surface Preparation

Concrete roof

Ensure the substrates are solid, clean, dry, and free from contaminants such as dirt, oil, grease, old paint, and loose material.

Color steel roof:

Damaged bases must be repaired, and the foundation must be treated with a matching primer.

Environmental requirements

Do not attempt application if rain is imminent.

Application

Apply using a roller, brush, or airless spray. Stir gently until the mixture is homogeneous. For the primer coat, dilute YHColorWall-5300 with 15-20% clean water. Once the primer is touch-dry, apply at least two undiluted coats of YHColorWall-5300. The recommended application rate is 0.8-1.0kg/m^2 per coat. Ensure each preceding coat is completely dry before applying the next. For concrete substrates prone to rising moisture, a primer featuring substrate- sealing performance shall be used in accordance with requirements.

Detailing

Expansion joints, drainage pipes, and other detailed nodes must be reinforced. Embed the reinforced polyester cloth into the coating, ensuring the waterproof coating fully saturates the carcass layer without wrinkles or warping.

Cleaning of tools:

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

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

- Do not apply YHColorWall-5300 on substrates with rising moisture.
- YHColorWall-5300 is not suitable for permanent water immersion.
- On substrates likely to exhibit outgassing, apply during falling ambient and substrate temperature. If applied during rising temperatures “pin holing” may occur from rising air.
- Ensure that temperature does not drop below 5 °C and that relative humidity does not exceed 80 % until the membrane has fully cured.
- YHColorWall-5300 should not be applied on roofs subject to ponding water with subsequent periods of frost.
- YHColorWall-5300 is not recommended for pedestrian traffic.

HEALTH AND SAFETY

Users shall refer to the latest Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data for information and advice on safe handling, storage and disposal of chemicals.

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.

Scan the QR code to view complete installation procedures and guidelines.

Installation method (red)



Installation method (white for cool roof)



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