

# YHColorWall-5300

UV-Resistant Elastic Water-based Waterproofing Coating



## DESCRIPTION

YHColorWall-5300 is a cold-applied, one-component waterborne liquid waterproofing membrane. It is highly elastic and UV-resistant. 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      | 4kg pail / 20 kg pail     |
| Composition    | VAE emulsion              |
| Density        | 1.7kg/L                   |
| Solid contents | 65%                       |
| 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

| 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°C, 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               |

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

## APPLICATION

### Application Information

|                               |   |
|-------------------------------|---|
| Ambient Air Temperature       | +5 °C min. / +35 °C max.  |
| Substrate Temperature         | +5 °C min. / +35 °C max.  |
| Substrate Moisture Content    | $\leq 4\%$  |
| 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                   | 1.9-2.1 kg / m <sup>2</sup> for 1mm dry film                        |
|                               | 0.6-0.8 kg / m <sup>2</sup> / coat, (0.3-0.4) mm dry film thickness |
| Recommend thickness           | 1.0-1.2 mm by 3 coats;  |
|                               | 8-10 m <sup>2</sup> / pail of 20kg                                  |

### 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 0.6kg/m<sup>2</sup> per coat (equivalent to a dry film thickness of approximately 0.25-0.3mm). Ensure each preceding coat is completely dry before applying the next.

#### 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.

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- 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.*