



# Flexible low-odour cementitious waterproofing coating

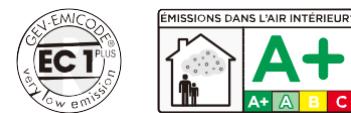
## YHCoat-931 Flex

### Description

YHCoat-931 Flex is a two-component cement-based waterproofing coating. After brushing, the waterproofing coating can form a seamless flexible film on the surface of substrate. The waterproofing coating has strong toughness and is able to resist the propagation of micro-cracks in the substrate.

### Features & Benefits

- Vapor permeability; suitable for use on damp substrates.
- Easily applied by a brush, roller or trowel.
- Highly flexible, with good crack bridging performance.
- Compatible with ceramic, mosaic tiles, and natural stone coverings.
- Cement-based products with low VOC.
- Good adhesion to concrete substrate.
- Non-toxic, the same as cement.



### Applied Areas

- Internal wet area, such as bathrooms, showers, kitchens and laundry areas;
- Balconies and terraces before tiling;
- Backwater surface of basement and exterior wall works.

### Packing and Specifications

Item	Description
Packaging	33 kg (component A: 10 kg barrel; component B: 23 kg bag)
Chemical component	Component A: Polymer emulsion and additives Component B: Poland cement and selected additives
Color	Component A: white; Component B: grey
Shelf life	12 months from date of production
Pot life at 20° C	Approx. 60 minutes (the pot life will be shortened at higher temperatures)
Density after mixing (kg/m <sup>3</sup> )	Approx. 1600

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## Typical Properties and Characteristic

Description	Test Methods	Values
Tensile strength [MPa]	ASTM D412-16	2.1
Elongation at break[%]	ASTM D412-16	49%
Tensile bond strength [MPa]	BS EN 1542: 1999	0.95
Water Vapour Transmission [kg/(s·m <sup>2</sup> )]	BS EN ISO 12572:2016	7.88 × 10 <sup>-8</sup>
Water Impermeability	BS EN 14891: 2017.A7	No water penetration was observed
Liquid Water Permeability[kg/m <sup>2</sup> ·h <sup>0.5</sup> ]	EN 1062-3:2008	0.018 (Class W3 )
Carbon Dioxide Permeability [g/(m <sup>2</sup> ·d)]	BS EN 1062-6: 2002, Method B	4.27
Resistance to Liquids	BS EN ISO 2812-2:2018	No Blistering No Deterioration
Crack-bridging ability	ASTM C1305/C1305M-16	No cracking
Water Toxicity	T24-24174	N.D.

## Application Information

Ambient air temperature	+5°C min. / +35°C max.	
Relative air humidity	10% RH min. / 80% RH max.	
Substrate temperature	+5°C min./+35°C max. Minimum 3°C above dew point	
Minimum overcoating waiting time	+5°C/50%RH	12 hours
	+15°C/50%RH	9 hours
	+25°C/50%RH	6 hours
	+30°C/50%RH	3 hours
Materials consumption	2-2.2 kg/m <sup>2</sup> for 1mm dry film thickness	

## Application Instructions

### Substrate Treatment

The surface to be waterproofed must be perfectly clean and smooth. Dust, cement adhesives, release agents, varnishes, and paints shall be removed through mechanical means or with a high-pressure water jet. Prior to application, fully wet the substrate to achieve a saturated surface-dry condition, with no standing water. Seal cracks in the substrate and repair damage using YHRepair-FastPlug. Treat gypsum and cement boards with YHPri-410 and allow to dry before using YHCoat-931 Flex.

### Mixing

Pour component A (liquid) into a suitable clean container. Then slowly add component B (powder) while stirring with a low-speed mechanical mixer. Carefully mix YHCoat-931 Flex thoroughly for several minutes until a perfectly homogeneous mixture free of lumps is obtained.

### Application

Approximately 1 kg/m<sup>2</sup>/coating (total coating thickness depends on the application area, substrate roughness, and surface profile). YH Coat-931 Flex must be applied in at least two layers. For high risk areas, such as those subject to hydrostatic pressure, three layers are required.

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## Apply the Coatings

Before painting, it is necessary to perform fillet reinforcement in areas prone to water leakage such as floor drains, internal and external corners, and pipe roots (approximately 20mm in diameter, without affecting subsequent tile paving). Apply YHCoat-931 Flex with a brush, roller or trowel. Pay special attention to corners. Make sure the previous coat is sufficiently dry before applying the next. The second application direction shall be perpendicular to the first. Generally, the minimum overcoating waiting time ranges from 3 to 12 hours, depending on temperature, humidity, and the absorption of the substrate. In order to obtain good adhesion, prolonged drying and curing times are recommended in low temperature or humid conditions.

## Curing Treatment

For cement-based products, proper curing is important. Freshly applied YHCoat-931 Flex shall be protected from direct sunlight, wind, rain and frost to ensure adequate hydration of cement to minimize cracking.

## Equipment Cleaning

All tools and application equipment shall be cleaned with clean water immediately after use. The liquid YHCoat-931 Flex can be dissolved and removed with clean water. Cured material can only be removed mechanically.

## Transportation & Storage

The product shall be stored in a ventilated place and not exposed to sunlight, rain or fire. Collision shall be avoided during transportation. The storage temperature is from 5°C to 35°C. Under normal transport and storage conditions, the shelf life is 12 months.

## Precautions

Dilution of YHCoat-931 with water is not recommended. Do not mix YHCoat-931 with additional additives, cement or aggregate. Do not apply YHCoat-931 to surfaces with standing water. Do not use this product if the package is damaged.

## Basis of Product Data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## Ecology, 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.

## Local Restrictions

The performance of this product may vary from country to country due to specific local regulations. For an exact description of the field of application, please refer to your local Product Data Sheet.

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### Legal Notes

This information, especially the recommendations related to the application and final use of Oriental Yuhong's products, is provided based on Oriental Yuhong's current knowledge and experience of the products when stored, handled, and applied properly in accordance with Oriental Yuhong's recommendations under normal conditions. In practice, the differences in materials, substrates, and actual site conditions make it impossible to infer any guarantee of merchantability or suitability for a specific application from this information, any written suggestions, or any other advice provided, nor can any liability arise from any legal relationship. The user of the product must test the product's suitability for the intended application and purpose. Oriental Yuhong reserves the right to change the characteristics of its products. Ownership of third parties must be observed. All orders are subject to our current Terms of Sale and Delivery. Users must always refer to the latest issue of local Product Data Sheet for the products concerned, copies of which will be provided upon request. The above disclaimer may need to be tailored to specific local laws and regulations.