

# YHCoat-1180

## Highly Flexible Cementitious Waterproofing Coating (2K)



### Technical Data Sheet (TDS)

## DESCRIPTION

YHCoat-1180 is a two-component waterproof coating. Component A consists of high-quality modified polymer emulsion and various additives. Component B consists of iron-rich containing and high-alumina cement. YHCoat-1180 has outstanding performance and forms seamless membranes.

## WHERE TO USE

YHCoat-1180 is suitable for balconies, roofs, and wet areas, such as kitchens, bathrooms, showers, and laundries, as well as water-retaining structures such as water features, and concrete water tanks. It can also be used as one of the multiple waterproofing layers for non-exposed roofs.

## CHARACTERISTICS AND PACKAGING

Item	Part A	Part B
Appearance	Thick liquid	Powder
Color	White	White
Packing Size	20kg per plastic pail	20kg per plastic bag

## ADVANTAGES

- Good elasticity with crack bridging capability.
- Can be applied to damp substrates.
- Easy to apply by brush or roller.
- Eco-friendly with low VOC.

## PROPERTIES

Items	Test Methods	Typical Values
Tensile Strength / MPa	ASTM D412-16 (2021)	> 1.5
Elongation at Break / %	ASTM D412-16 (2021)	> 150
Pull-off Strength (To Concrete) / MPa	ASTM D4541-02	> 1.1
VOC	ISO 11890-2:2020	0

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

## APPLICATION INSTRUCTIONS

### Application information

Items	Description
Mixing ratio by weight	A : B=1 : 1
Consumption*	2.2-2.4kg for 1mm dry film 0.25-0.30 m <sup>2</sup> / kg at 1.5mm dry film, 11-12 m <sup>2</sup> /set of 40kg
Recommended thickness	1.2-1.5mm by 2-3 coats

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1.0-1.5kg/m <sup>2</sup> /coat, 0.4-0.7mm 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

*\* This figure is given for guidance only, as actual quantities used will vary depending on the substrate condition and surface profile on site.*

#### Substrate preparation

Concrete, mortar, and masonry surfaces must be clean, free from grease, oil, and loosely adhering particles. Surfaces must be thoroughly saturated with water but have no standing water before the application of YHCoat-1180.

#### Mixing

YHCoat-1180 is supplied in pre-weighed units. Pour the entire liquid component into a clean mixing container. While mixing at low speed, water can be added, but the quantity should not exceed 15% of the liquid volume. Slowly add the powder component to the liquid and continue mixing for a few minutes until a creamy, lump-free consistency is achieved. The mixture has a pot life of 2 hours.

#### Detailing

All inside and outside corners should be rounded into circular arcs. Apply an additional coat over pipe ends, cracks, drains, and wall/floor intersections. Install polyester reinforcing fabric and apply YHCoat-1180 in 2-3 coats to ensure the fabric is thoroughly penetrated without folds or edge warping.

#### Coating Application

Apply YHCoat-1180 first to vertical surfaces, then to horizontal surfaces. While the substrate is damp but free of standing water, apply the coating using a brush, roller, or squeegee in 2-3 coats. Allow each coat to cure before applying the next, and ensure each coat is applied at a right angle to the previous one. The film thickness must be a minimum of 1.5 mm for horizontal surfaces and 1.2 mm for vertical surfaces. The YHCoat-1180 membrane must cure for 1-2 days, which may be longer in wet condition.

#### Cleaning

Clean all tools and application equipment with clean water immediately after use. Any hardened or cured material can only be removed mechanically.

## TRANSPORTATION AND STORAGE

The product should be stored in a well-ventilated area, protected from sunlight, rain, and fire. Avoid collisions during transportation. Maintain the storage temperature between 5°C and 35°C. Under normal transportation and storage conditions, the shelf life is a minimum of 12 months.

## PRECAUTIONS

- YHCoat-1180 does not provide a traffickable finish. Protect with a leveling screed.
- YHCoat-1180 is not a decorative treatment and may display signs of "blooming" after rain or in damp weather conditions. This does not affect the performance of the coating.
- Special attention is required to avoid puncturing the waterproof coating with fixings.
- Protect freshly applied material from freezing and rain.

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- This product contains alkaline substances, such as cement, which may cause skin allergies. Protective measures should be taken during use.

### HEALTH AND SAFETY

Users should refer to the latest Material Safety Data Sheet (MSDS), which contains physical, ecological, toxicological, and other safety-related data, for information and advice on the 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.*