YHCoat-1000

Easy-to-apply Cementitious Waterproofing Slurry





DESCRIPTION

YHCoat-1000 is a two-component, polymer-modified cementitious waterproofing slurry designed for effective waterproofing applications. It consists of two main components: a liquid polymer emulsion blended with various additives and an inorganic powder material composed of cement and fillers. When mixed in specific proportions, these components form a waterproofing slurry that can be applied to surfaces to create a durable, robust and water-resistant coating.

WHERE TO USE

Suitable for interior applications such as toilets, bathrooms, kitchens, balconies, floors, flat roof, and floor heating systems, as well as exterior non-tile and stone facade systems for building walls. It can also be used for maintaining the waterproof layer of underground foundations.

CHARACTERISTICS AND PACKAGING

Item	Part A	Part B
Appearance	White thick liquid	Grey powder
Density	2.0 kg/L	
Mixing Ratio (in weight)	Part A : Part B = 3 : 10	
Packing Size	6kg per plastic pail	20kg per valve bag

ADVANTAGES

- Green, safe, and environmentally friendly.
- Can be directly applied to wet surfaces, offering excellent impermeability.
- Smooth application process with fast drying, saving time and labor.
- Strong adhesion to the substrate, ensuring a durable bond.

PROPERTIES

Description	Test Methods	Typical Values
Pull-Off Strength (To Concrete)	ASTM D7234	≥ 1.0 Mpa
Compressive Strength	ASTM C109/ 109M	≥ 14 Mpa
Flexural Strength	ASTM C348	≥ 7 Mpa

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Water Vapor Transmission	BS EN ISO 12572	≈ 1.02×10^{-6} kg/(s ·m²)
Liquid Water Permeability	BS EN 1062-3	≈ 0.057 kg/m².$h^{0.5}$ (Class W3)
Permeability to Carbon Dioxide	BS EN 1062-6	≈ 0.29 g/(m².d)
Resistance to water penetration	DIN 1048 Pr 5	≈ 90 mm
Water impermeability (1.5bar, 7d)	BS EN 14891, A7	≈ 0 mm

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

APPLICATION INSTRUCTIONS

Application Information

Mixing ratio	Used as slurry: A: B = 3 : 10 (by weight)
Consumption & Coverage	2kg/㎡ by 2coat in wet area 3kg/㎡ by 2-3coat in other environment
Application temperature	+5 °C min. / +35 °C max
Pot life	≈ 30 minutes (at +30°C). At higher temperatures, the pot life may be reduced.
Minimum Over coating Waiting Time	Waiting time between coats: +10°C: 12hours; +20°C: 6hours; +30°C: 3hours

Application

Substrate Treatment

Ensure that the substrate is firm, clean, dry and free from contaminants such as dirt, oil, grease, old paint and loose materials.

Mixing

Slowly add powder composition (B) to liquid composition (A) in a clean container and mix. Use a forced mixer or perform mechanical mixing in a clean bucket with a drill and paddle. Until a homogeneous, lump-free condition is achieved. Stirring time: 3 minutes.

Application

Before waterproof application, the substrate must be fully wetted to saturation with clear water, but there shall be no visible water. Apply the mixed YHCoat-1000 in one direction with a stiff brush, roller, or broom. After the first coat is hardened, apply YHCoat-1000 for the second coat in the direction perpendicular to the first application direction.

Curing Treatment

Protective measures must be taken to avoid rapid drying when applied directly under sunlight and high wind conditions.

Tool Cleaning

All tools and application equipment shall be cleaned with water immediately after use. Hardened/cured material can only be removed mechanically.

TRANSPORTATION AND STORAGE

- The product should be stored in a well-ventilated area, protected from sunlight, rain, frost and fire. Avoid squeezing or impact during transportation. The recommended storage temperature range is 5°C to 35°C. Under normal transportation and storage conditions, the shelf life is a minimum of 12 months.

PRECAUTIONS

- YHCoat-1000 does not provide a traffickable finish. Protect with a leveling screed.
- YHCoat-1000 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.
- 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.

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