

Mold-resistant epoxy-based tile grout

YHGrout-510-Deco

Description

YHGrout-510-Deco is a two-component reactive grout with epoxy resin and modified curing agent as the principal raw materials and fumed silica and pigment as functional additives. It effectively solves dust accumulation, blackening, efflorescence, mildewing, and cleaning challenges of gaps in indoor areas, promoting cleanliness and safety.

Features & Benefits

- Bright in color, aesthetic and fashionable
- Green and pollution-free, passing Class A+ environmental protection certification in France
- Water-resistant, dirt-proof, and easy to clean
- Long resistance to fungus and mildew to reduce the possibility of bacteria breeding

Uses

It applies to waterproofing, mildew-proofing, gap-sealing of indoor wall and floor tiles, and edge-sealing of internal and external corners of floors. Its applications are as follows:

- Kitchens: mildew-proofing, waterproofing, and gap-filling of cupboards, sinks, and cookers;
- Bathrooms: mildew-proofing, sealing, and waterproofing of washstands, shower cubicles and bathtubs.
- Indoor windowsills and balconies: mildew-proofing, gap-filling, and waterproof-sealing;
- Gap repairing of hard materials such as stone, ceramic, glass and metal.



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Packing and Specifications

| Item | Description |
|-------------------------------------|-----------------------------------------|
| Appearance | Thixotropic paste |
| Solid content | ≥ 95% |
| Density | 1.20-1.35 kg/L |
| Waiting time to remove excess grout | 24 h |
| Packaging | Two components, 400 g/Quantity per tube |
| Shelf life | 12 months from date of production |

Typical Properties and Characteristic

| Description | | Test Methods | Values |
|-------------------------------------|----------------|--------------|-----------------------|
| Abrasion Resistance | | EN 13888-2 | 21 mm ³ |
| Tensile Adhesion Strength (28 days) | | EN 12004-2 | 2.8 N/mm ² |
| Shrinkage | | EN 13888-2 | 0.3 mm/m |
| Water Absorption | after 30 min. | EN 13888-2 | 0.0 g |
| | after 240 min. | | 0.0 g |

Application Information

| | | |
|----------------------------------------|--------------------------|----------|
| Ambient Air Temperature | 5~35℃ | |
| Relative Air Humidity | 5% RH min. / 95% RH max. | |
| Substrate Moisture Content | ≤ 7% | |
| Minimum Overcoating Waiting Time | +5℃/50%RH | 24 hours |
| Materials Consumption | +15℃/50%RH | 18 hours |
| Water Absorption after 240 minutes (g) | +25℃/50%RH | 12 hours |
| Extent of Mould Growth | +30℃/50%RH | 8hours |
| Pot Life @30℃ | ≤ 7% | |

Application Method

Surface and gap treatment

Use tools such as seam scrapers and scraper knives to

remove oil stains, loose materials, and other pollutants in the gaps, and use a vacuum cleaner to clean them up to ensure that the tile gaps and surrounding environment are clean and dry, without dust, particles, oil stains, loose materials, etc.

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Application

Application environment

The ambient temperature for application shall be between 5-35°C. In case of a low ambient temperature, the grout can be immersed in 50°C hot water for about 15 min preheating before proceeding to the next process. If the gap surroundings have been subject to acid or alkaline cleaning, the grout shall be tested at corners not affecting the overall appearance. When the grout is proved to meet the appearance requirements, large-area application can be proceeded.

Material preparation

Cut the static mixer with a utility knife according to the gap width, and squeeze the glue tubes with a glue gun until components A and B are discharged from the discharge port. Then install the static mixer to the discharge port and install a glue gun for gap filling. Discard the first 20-40 cm product in the mixing head for uniform mixing before subsequent gap filling.

Gap filling

It is recommended to wax both sides of the gap or lay masking tapes for protection before gap filling. During gap filling, keep the mixing tube at a 45° angle with the tile surface to ensure the gap is filled with grout. Slowly apply the grout evenly into the gap with proper force and frequency. Move the static mixer backward uniformly to ensure even and full gap filling.

Filled gap treatment

Pull a steel ball or spatula for filled treatment evenly from one end to the other along the tile gap to ensure the formation of a full surface with a moderate arc after the grout is set. Complete filled gap treatment within 30 minutes after gap filling, and within 10 minutes if in summer with high temperatures.

Excess grout removal

Use a cleaning shovel to clean up the excess grout on the surface of ceramic tiles after the product is fully set. If masking tapes are used, remove them and the excess grout around the gap immediately after seal treatment. It is recommended to remove the excess grout 6-12 h after gap filling (a longer waiting time in case of a low ambient temperature).

Curing Treatment

Light-colored products to be protected from direct sunlight.

Transportation & Storage

The product should be stored in a cool and dry place. When the temperature is lower than 5°C, thermal insulation measures should be taken. Unopened products have a shelf life of 12 months when stored at normal temperatures between 5°C and 35°C.

Precautions

Protect all materials against extreme temperatures: The product shall be stored in a cool, dry, and ventilated place with a temperature not exceeding 40°C.

Avoid sunlight, rain, and impact during transportation, avoid package damage, and ensure the package opening facing upwards.

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.

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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.

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.