DDM

Thin-layer drainage mortar

tubag
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Epoxy-resin based drainage mortar for thin layers

- water-permeable
- with anti-capillary effect to stop rising moisture

APPLICATIONS

- for producing cement and water-free bedding mortar and levelling compound
- for laying paving stones and natural stone slabs
- for external use
- suitable for balconies, terraces, pavements and outdoor staircases with low stress
- minimum layer thickness: 25 mm

PROPERTIES

- solvent-free
- highly water-permeable
- high adhesive bond
- chemical resistant
- safe from efflorescence and staining on natural stone pavements

COMPOSITION

- 2-component reactive resin plastic based on epoxy resin
- graded stone aggregates in accordance with DIN 13139
- 2-component reaction resin mortar with defined, special mineral grain mixture

SUBSTRATE

Suitable substrates	■ Concrete base courses ■ Cement screeds
Properties/tests	■ The substrate must be dry, load-bearing, clean, dust-free and free of adhesion-reducing residues, release agents, efflorescence and sintered coatings. ■ Minimum gradient > 1% to < 2.5%
Pretreatment	■ Carefully remove adhesion-reducing layers and contamination, e.g. dust, sinter layers, efflorescence or release agent residue, using suitable measures. ■ In case of impermeable substrates, e.g. concrete base courses, an additional drainage level is to be provided (e.g. with a drainage mat suitable for drainage mortar). ■ The quick-mix MDF flexible sealing slurry, for example, is suitable for waterproofing the concrete base course.

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PROCESSING

Temperature	■ Do not use or allow to harden in air, material or substrate temperatures of less than +10°C, in the case of expected night time frost or at temperatures of over +30°C, in direct sunlight, extremely heated substrates and/or in strong wind.
Mixing / Preparation / Processing	■ Allow curing component to flow completely into the main component. ■ Mix intensively with a slowly running agitator at approx. 300 RPM for at least 3 minutes. ■ Then repot into a clean container and intermix thoroughly again. ■ Put ready-mixed resin and grain together and mix in compulsory mixer for 1 to 2 minutes. A basket mixer can also be used for small quantities.
Processing	■ Apply the mortar to the prepared area straight after mixing. ■ The bedding is to be skimmed on screed levelling tools or metal bars. ■ Alternatively, a wet-in-wet installation is possible. In this case, DDM binding agent components are to be applied to the bottom of the covering elements.
Processing / Working time	■ Approx. 25 to 60 minutes, depending on the temperature and substrate conditions. ■ Tailor mixed quantities to the processing time. ■ The processing time will be extended at low temperatures and/or high air humidity and shortened at high temperatures and/or low air humidity. ■ The stated times apply for a temperature of +20°C and relative humidity of 65%.
Drying / Hardening	■ If the weather conditions are unfavourable (e.g. driving rain, frost, strong sunlight and/or winds), then suitable protection measures must be taken, particularly in the case of freshly coated surfaces. ■ Completed areas are to be protected from rain for at least 3 hours after the work. ■ Can be worked over after approx. 12 hours drying time (at +20 °C and 65% relative humidity). ■ Can take full loads after 7 days. ■ Timings relate to +20°C and 65% relative humidity.
Cleaning the tools	■ Clean all tools and equipment with water immediately after use.
Notes	■ When using indoors, ensure good ventilation after the application and during the curing process.

PACKAGING

■ 26 kg/set

STORAGE

■ Store in the original, unopened packaging in dry, frost-free conditions.

QUANTITY REQUIRED / YIELD

■ Consumption: approx. 37 kg / m² with a layer thickness of 25 mm

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TECHNICAL DATA

Compressive strength	≥ 15 N/mm²
Grain	2 – 3,5 mm
water permeability coefficient	> 1 × 10^{-3} m/s
Water permeability	> 4,000 l/m²/h
Processing time	approx. 25 - 60 minutes depending on temperature
Processing temperature	+10°C to +30°C
Revisability	after approx. 12 hours
Resilience	after approx. 7 days

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

SAFETY AND DISPOSAL INSTRUCTIONS

Safety

- Hazardous substance in the sense of the German Ordinance on Hazardous Substances.
- Comprehensive instructions can be found in the DGUV Regulation 113-012 (previously BG regulations 227) “Activities with epoxy resins” issued by the trade associations.
- If any product gets into the eyes, rinse out immediately with clean tap water. Consult optician. Clean with plenty of water after skin contact.
- During processing and drying, ensure thorough ventilation.
- Further information can be found in the safety data sheet at www.tubag.de.

Disposal

- Dispose of the material in accordance with the official regulations.
- Completely empty and recycle the packaging.
- Liquid product remains can be disposed of according to the Waste Catalogue Ordinance under the Waste Code 08 01 11 (waste paint and varnish containing organic solvents or other dangerous substances).

GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.

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