

EPOXY MOISTURE BARRIER 2K EP 170

- > high barrier effect against moisture
- > Emission EC1 Plus / extremely low-emission
- > solvent-free / Giscode RE1
- > reduced odour



Product description

High-quality, low-emission, two-component epoxid resin system for blocking moisture on cement screed and concrete.

For blocking excessive indoor residual moisture up to 6 CM% in concrete substrates and cement screeds. A compound seal for concrete surfaces with ground contact and new concrete ceilings with high residual moisture as well as for priming or surface strengthening of all common, absorbent and non-absorbent building substrates inside and out. As well as an EP mortar with quartz sand 0.063 - 3.5 mm. Not suitable as a barrier against pressing water. Consultation required for use with underfloor heating systems.

Delivery format:

Container	Outer packaging	Pallet
3 KG / BLE		80
1,5 KG / BKA		198
20 KG / BLE		16
10 KG / BKA		42
8 KG / BKA		33
4 KG / BKA		80

Storage:

Can be stored frost-free, cool and dry on wooden shelves in the unopened original container for: 365 days.

Processing

Recommended tools:

Low-speed electric agitator, suitable mixing vessel, solvent-resistant roller, smoothing trowel, notched trowel B2 (as moisture barrier).

Mixing:

The required quantities must always be mixed in a uniform weight ratio of comp. A : comp. B = 2 : 1. The entire quantity of component B is added to component A and they are mixed with an electric agitator until a uniform consistency of the batch is achieved, approximately 2 to 3 minutes. It should be ensured that the materials accumulating on the edges and walls of the container are thoroughly mixed in. To ensure uniform

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hardening and to avoid random sticky spots, the thoroughly mixed material should be transferred to a second clean container and thoroughly mixed again.

Processing:

Depending on the application, pour the material onto the pretreated substrate section by section and distribute across the entire surface with a roller or notched trowel. When using a two-layer moisture barrier (EP 170), apply the first coat without spreading quartz sand and allow it to dry (application rate approx. 300 g/m²). Wait 12 hours at least and 36 hours at the most before applying the second coat (application rate approx. 150 g/m²) and then immediately spread dry quartz sand 0.6 - 1.2 completely and thoroughly. Apply the moisture barrier using a notched trowel A2 (application rate approx. 400 -450 gr/m²). Alternatively, an adhesion-enhancing primer coat of Supergrund D4 can be applied to the hardened EP 170 moisture barrier within 12 hours (or light sanding) in a subsequent smoothing process with minimal surface load.

- Roll or smooth the moisture barrier and primer unfilled.

- Pourable or self-levelling EP mortar MV - 1:1 to 1:2 with QS for each part 0.1-0.2 mm and 0.3-0.8 mm -

Trowel applied EP mortar MV - 1: 7 to 1:10 with QS 0.063-3.5 mm

Pot life and processing temperature:

approx. 60 min. Pot life at a processing temperature of +10 °C

approx. 40 min. Pot life at a processing temperature of +20 °C

approx. 20 min. Pot life at a processing temperature of +30 °C

Technical data

Density

Viscosity

Consumption

Pot life

Processing temperature

Comp. A approx. 1.15 g/cm³, comp. B approx. 1.0 g/cm³

Comp. A approx. 500 - 700 mPa*s, comp. B approx. 60 mPa*s

depending on the application: 200 - 600 g/m²

as moisture barrier: 450 g/m² as EP mortar: approx. 0.3 kg/m² for each mm of layer thickness

approx. 40 min.

+15 °C to +25 °C

Test certificates

Tested in accordance with (standard, classification ...)

EC1 Plus

Substrate

Suitable substrates:

Standard mineral substrates

Cement screed and concrete

Calcium sulphate screeds

Mastic asphalt

Wooden substrates

Dry screeds

Parquet and adhesion technology

The substrate must be dry, free of frost, solid, load-bearing, dimensionally stable and free of dust, dirt, oil, grease, solvents and loose parts and correspond to the applicable technical national and European guidelines, standards as well as meet the "generally accepted rules of the trade".

Suitable substrate pre-treatment:

Mechanically roughen the substrates. Extremely smooth and hard surfaces such as smoothed concrete floors or hard magnesite screed must be pretreated using a shot blasting process. Degrease and thoroughly sand metal surfaces.

Product and processing instructions

Material instructions:

- When working outside the ideal temperature and/or humidity range the material properties may change significantly.
- Bring materials up to temperature accordingly before processing! - To retain the product properties, no foreign materials may be mixed in!
- Water dosing amounts or dilution specifications must be precisely kept!
- Check coloured products before use for colour consistency!
- Colour evenness can only be guaranteed within a batch.
- The colouring is significantly influenced by the environmental conditions.
- Water-based systems can only be kept for a limited period after dilution with water; that is why we always recommend to process as quickly as possible.
- Always allow primer to dry/harden well.
- Large mixed residual quantities can heat up after the pot life has been exceeded and lead to the development of a lot of smoke and odour. Mix unused, mixed residual quantities with quartz sand in original container and allow them to harden in the open.

Environmental advice:

- Do not process at temperatures below +15 °C!
- The ideal temperature range for material, substrate, and air is +15 °C to +25°C.
- The ideal air humidity range is between 40% to 60%.
- Increased humidity and/or lower temperatures delay, lower air humidity and/or higher temperatures accelerate drying, setting, and hardening.
- Ensure sufficient ventilation during the drying, reaction, and hardening phase; avoid draughts!
- Protect from direct sunlight, wind, and weather!
- Protect adjacent components!

Tips:

- We recommend using a test surface first or a small area for initial, small-scale testing.
- Observe the product data sheets of all MUREXIN products used in the system.
- Keep a genuine original container of the respective batch for later repair work.

The information provided reflects average values that were obtained under laboratory conditions. Due to the use of natural raw materials, the indicated values of individual deliveries may vary slightly without impacting the product suitability.

Safety instructions

This leaflet is based on extensive experience, is intended to convey the best of our knowledge, is not legally binding and does neither constitute a contractual legal relationship nor a subsidiary obligation resulting from the bill of sale. The quality of our materials is guaranteed within the framework of our general terms and conditions. Our products may be used by professionals and/or experienced and accordingly technically skilled persons only. Users are not released from inquiring in case of uncertainties or from rendering professional workmanship. We recommend using a test surface first or a small area for initial, small-scale testing. Naturally, it is not possible to describe or foresee all possible current and future uses and peculiarities. Information that is assumed to be familiar to experts has been omitted.

Please observe the current, technical, national and European standards, guidelines and data sheets regarding materials, substrates and the subsequent construction.

Please contact us if you have any reservations or doubt. This version is rendered invalid if a new version is released. The most recent data sheets, safety data sheets and the terms and conditions are available online at www.murexin.com.