EPOXY BASE COAT EP 2

> glossy
> universally applicable
> self-levelling
> economical

Product description

Glossy, solvent-free, coloured, self-levelling floor coating, two-component on epoxy resin base, with moderate chemical and high mechanical resistance.
For the production of coloured, industrial floors which can be walked and driven on, with medium to heavy capacity, as well as for living rooms and show rooms.

Delivery format:

Container	Outer packaging	Pallet
25 KG / BHO		16
5 KG / BKA		99
2,5 KG / BKA		100
12,5 KG / BLE		42

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

Processing

Recommended tools:
Slow-rotating electric agitator, suitable mixing vessel, trowel, smoothing trowel, spatula, micro paint roller, hand or surface rake, rubber broom, de-aeration roller.

Mixing:
Component A and component B are basically delivered in the relevant correct mixing ratios. A scale must be used to determine partial quantities. Thoroughly mix component A using a slow-rotating electric agitator (approx. 300 rpm), then add component B and continue mixing until a homogeneous, lump-free consistency is reached (approx. 2-3 minutes).
To prevent mixing and/or proportioning mistakes, the mixed material must be decanted into a clean, dry container (repotted) and stirred thoroughly again.

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Processing:
Depending on the application, pour the material onto the pretreated substrate section by section and distribute across the entire surface with a suitable tool.
- Apply filled or unfilled as a coating and deaerate when fresh using a recommended tool
- Apply as a topcoat with a rubber brush and roll
- Mix the mixed coating with thixotropic agent on vertical or inclined surfaces
- Mortar casting as capillary block as per ZDB swimming pool construction - Mix epoxy base coating EP 2 in mixing ratio 1:1 with quartz sand (graduated grain size distribution 0.063 - 3.5 mm) and cast - Joint dimension max. 20 mm wide and min. 50 mm high

Technical data

Density	Comp. A + B approx. 1.45 g/cm³
Colour	Can be coloured according to RAL/NCS - ready-made stock items 7016, 7030, 7032, 7035, 7042 and 7044
Viscosity	Comp. A + B approx. 2,300 - 2,600 mPa*s
Consumption	approx. 1.45 kg/m² per mm
Mixing ratio	A:B = 5:1
Recoatability	after approx. 24 hrs
Shore-D hardness	65 - 70
E-module	6200 N/mm²

Test certificates

Tested in accordance with (standard, classification ...)
EN 1504-2:2005

Substrate

Suitable substrates:
Requirements for mineral substrates:
the substrate must be dry, stable, and free of separating, intrinsic, and dissimilar substances, pursuant to the IBF Directive for industrial substrates made of reaction resin. Residual moisture max. 4 % by weight, measured with the CM device. Substrate temperature greater than 12 °C and 3 K above dew point; adhesive tensile strength on average 1.5 N/mm²; adhesive tensile strength smallest single value 1.1 N/mm²

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.
- Environmental conditions significantly influence colouring.
- Carefully open the container and stir the product well!
- A scale must be used for mixing partial amounts! Process reaction resins as quickly as possible after mixing.
- Water-based systems can only be kept for a limited period after dilution with water; which is why we always recommend to process as quickly as possible.
- In water-based systems, the amount of water specified by the manufacturer may only be added after components A and B have been mixed.
- Always allow primers to dry well/cure.

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- Odour formation of solvent-based systems must be observed.
- Applied reaction resins can be walked on after 1 day at a constant temperature of + 20 °C, after 3 days mechanically, and after 7 days are chemically resistant.
- UV exposure and exposure to certain chemicals can cause discolouration or yellowing on the surface, but this does not impair the functionality and suitability for use of the coating.
- The colour designations given (RAL, NCS,...) are to be understood as a description of the colour tone without any binding colour tone to the original colour tone cards.
- If you are using different products (on the same object), colour consistency cannot be guaranteed even if the colours have the same designation.
- Note that the colour will change when adding quartz sand, thixotropic agents, suspending agents, or similar!
- Residual quantities which are not needed and which have already been mixed must be mixed with quartz sand (smoke generation).

Environmental information:
- Do not process at temperatures below + 5 °C!
- The ideal temperature range for material, substrate, and air is +15 °C to +25 °C.
- The ideal relative 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!
- The substrate temperature must be at least 3 K above the dew point (the prevailing relative humidity and the air temperature can be used to determine the respective dew point temperature by means of a dew point table).
- During the reaction phase protect against impurities (dust, insects, leaves, etc.).
- If the time window of 48 hours between the individual work steps is exceeded an intermediate sanding must be carried out!
- In areas with UV loads we recommended systems resistant to yellowing.
- Adhesive tensile strength: average: >= 1.5 MPa; smallest single value: 1.1 MPa
- Maximum residual moisture (CM measurement): 4 p.b.w.; for permeable systems: 6 p.b.w.
- The substrate is to be pretreated with suitable mechanical processes.

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.
- To avoid projections and visible transitions of several working paths, these must be processed offset for longer lengths!
- Abrasive, scratching mechanical loads lead to wear marks.
- Contact with car tyres or other softening plastic can lead to discolouration, impressions or softening of the surface.
- For defined superstructures see the "Service" section on www.murexin.com with regard to anti-slip classes, fire classes, and decorative surface design.
- To reduce residual quantities that have already been mixed and are no longer required, we recommend they be mixed with quartz sand in good time!

The information provided reflects average values 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

Please refer to the safety data sheet for product-specific information with regard to composition, handling, cleaning, corresponding actions, and disposal.

Limiting and monitoring exposure Personal protective equipment:
General protection and hygiene measures:
- Observe the usual precautionary measures when dealing with chemicals.
- Keep away from foodstuffs, beverages, and feedstuffs.
- Take dirty, soaked clothing off immediately.
- Wash your hands before breaks and after finishing work.
- Do not inhale gases/vapours/aerosols.
- Avoid contact with the eyes and skin.

Breathing protection:
- Breathing filter device for short-term or low load; for more intensive or longer exposure use self-contained breathing apparatus.

Hand protection: protective gloves.
Glove material
- Nitrile rubber
- The selection of a suitable glove depends not only on the material, but also on other quality properties, which may vary from manufacturer to manufacturer. As the product is a preparation made up of many materials, the resistance of glove materials cannot be predicted in advance and must, therefore, be checked before use.

Penetration time of the glove material
- The precise penetration time is to be ascertained from the glove manufacturer and observed.

Eye protection: tightly closing protective goggles.
Body protection: protective occupational clothing.

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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.

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