EPOXY SEAL EP 20

EN 1504-2

> very good chemical resistance
> food-safe
> high coverage
> can be walked and driven on
> abrasion-resistant

Product description

Solvent-free, glossy, food and feed-safe, coloured 2-component seal based on epoxy resin. High wear and chemical resistance.
Indoor and outdoor seals which can be walked or driven on with light to moderate mechanical load on suitable mineral and epoxy resin substrates. On wall and floor areas, especially in wet areas as an alternative to ceramic tiles.

Delivery format:

Container	Outer packaging	Pallet
7,5 KG / BLE		42
1,5 KG / BKA		198

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, paint grid.

Mixing:
Component A and component B are 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.

Processing:
The mixed product is applied with a suitable tool. Roll cross-wise.

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Technical data

Density	Comp. A + B approx. 1.4 g/cm³
Colour	Can be coloured according to RAL colour card, ready-made stock items: approx. RAL 7032
Viscosity	Comp. A + B approx. 10,000 mPa*s
Consumption	approx. 0.2 kg/m² per coat depending on the absorbency of the substrate
Mixing ratio	A:B = 5:1
Pot life	approx. 30 min
Recoatability	after approx. 12 hrs

Test certificates

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

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 Guideline "Industrial floors made of reactive 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:
- The material properties may change significantly when working outside the ideal temperature and/or humidity range.
- 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 processing 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.
- 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.
- With UV loads and the influence of certain chemicals, the surface can discolour or yellow, although this does not impair the functionality and usability of the coating.
- The colour designations (RAL, NCS,...) are to be understood as colour descriptions without binding the colour to the original colour cards.
- If different products (on the same object) are used, absolute colour matching cannot be guaranteed even if the colour designation is the same.
- Observe the colour change when adding quartz sand, thixotropic agent, setting agent, or similar!
- Residual quantities which are not needed and which have already been mixed must be mixed with quartz sand (smoke generation).

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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 and 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 recommend 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 must 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
- Butyl rubber
- 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.

Penetration time of the glove material
- The precise penetration time must be obtained from the protective glove manufacturer and complied with.

Eye protection: tightly sealed protective glasses.
Body protection: occupational protective 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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