Primer Resin GH 21

EN 1504-2

> low viscosity
> universally applicable
> highly fillable

Product description

Low-viscosity, modified, unpigmented, odourless epoxy resin hardening system in two components for universal construction use. The material can be filled with high quantities of fire-dried quartz sand on-site if required.
Indoors and outdoors as a primer and scratch filler for epoxy coatings, for renovating screed cracks, filling screed hollows in injection processes, for producing mortar mixtures with quartz sand for casting machine foundations and stands, as well as for the creation of moisture barriers.

Delivery format

Container	Outer packaging	Pallet
18 KG / BHO	-	16 BHO
9 KG / BLE	-	42 BLE

Storage
Can be stored frost-free, cool, and dry on wooden shelves in the unopened original container for 730 days

Processing

Recommended tools
Slow-rotating electric agitator, suitable mixing vessel, smoothing trowel, spatula, roller, rubber broom.

Mixing
Component A and component B are always supplied in the correct mixing ratio. Scales should be used to determine partial quantities. Stir component A thoroughly using a slow-rotating electric mixer (approx. 300 rpm), then add component B and continue mixing until a homogeneous, streak-free consistency is achieved (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 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, apply the first coat without adding quartz sand and allow to harden. (Consumption approx. 250 g/m²) After 12 hours or after 48 hours at the latest, the second coat must be applied (consumption approx. 150 g/m²) and must be sprinkled with a surplus of fire-dried quartz sand 0.6 - 1.2 immediately after application.
- as a primer and moisture barrier, roll or smooth unfilled.
- as scratch filler - 1:1 to 1:2 with quartz sand (0.1 - 0.2 / 0.1 - 0.5 / 0.3 - 0.8 mm)
- as trowel applied reactive resin mortar mixing ratio - 1:10 with quartz sand 0.063 - 3.5 mm

Technical data

Density	Comp. A + B approx. 1.07 g/cm³
Viscosity	Comp. A + B approx. 300-500 mPa*s
Colour	transparent
Consumption	as primer approx. 0.25 kg/m² per coat, as scratch coat approx. 0.6 kg/m² per mm at a mixing ratio of 1:1 to 1:2.5 with a quartz sand of 0.1 - 0.2 mm or 0.3 - 0.8 mm, as a coarse mortar approx. 2 kg/m² per cm, mixing ratio: up to 1:10, quartz sand of 0.063 - 3.5 mm, as a moisture barrier approx. 0.40 kg/m²
Mixing ratio	A:B = 2:1
Pot life	approx. 25 - 30 min.
Recoatability	after approx. 12 hrs at 23°C

Test certificates

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

Substrate

Suitable substrates
Requirements for mineral substrates:
The substrate must be dry, load-bearing and free from separating, inherent or foreign substances in accordance with the requirements of the IBF Guideline - Industrial Floors made of Reactive Resin. Residual moisture max. 6% by weight, measured with the CM device up to a concrete compressive strength class of C 30/37 (from concrete compressive strength class C 35/45 residual moisture max. 4 % by weight). Substrate temperature greater than 12 °C and 3 K above dew point; average adhesive tensile strength 1.5 N/mm²; minimum individual adhesive strength 1.1 N/mm²

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Product and processing instructions

Material instructions:
- The material properties may change considerably if processed outside the ideal temperature and/or humidity range.
- Bring materials to the correct temperature before processing!- To retain the product properties, no foreign materials may be mixed in!
- Water addition quantities or dilution specifications must be strictly adhered to!
- Check tinted products for colour accuracy before use!
- Colour consistency can only be guaranteed within a batch!
- The colour development is significantly influenced by the ambient conditions.
- Open containers carefully and stir the product well!
- Use a scale to mix partial quantities!
- After mixing, reactive resins must be processed as quickly as possible.
- Water-based systems have a limited shelf life after dilution with water; we therefore recommend processing as quickly as possible.
- With water-based systems, the amount of water specified by the manufacturer may only be added after mixing components A and B.
- Always allow primers to dry/cure well.
- Note the odour of solvent-based systems.
- Applied reactive resins can be walked on after 1 day, mechanically stressed after 3 days and chemically stressed after 7 days at a constant temperature of + 20 °C.
- Exposure to UV radiation and certain chemicals can cause discolouration or yellowing of the surface, but this does not impair the functionality and usability of the coating.
- The listed colour designations (RAL, NCS,...) are to be understood as a colour description without colour binding to the original colour charts.
- When using different products (on the same object), no absolute colour match can be guaranteed even if the colour designation is the same.
- Note the colour change when adding quartz sand, thixotropic agents, adjusting agents or suchlike !
- Residual quantities that are not required and 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 40 % to 60 % relative humidity.
- 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 from contamination (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 exposed to UV radiation, we recommend systems that are resistant to yellowing.
- Adhesive tensile strength: average: >= 1.5 MPa; lowest individual value: 1.1 MPa
- Maximum residual moisture (CM measurement): 4 % by weight; for permeable systems: 6 % by weight
- The substrate must be pretreated using suitable mechanical methods.

Tips:
- We generally recommend creating a test surface in advance or carrying out small-scale tests.
- Observe the product data sheets of all MUREXIN products used in the system.
- Keep some genuine original product from the respective batch for repair work.
- In order to avoid build-up and visible transitions of several working strips, these should be processed offset for longer lengths.
- Abrasive, scratching mechanical loads lead to signs of wear.
- Contact with car tyres or other plastics containing plasticisers can lead to discolouration, marks, or softening of the surface.
- See the “Service” section of www.murexin.com for defined structures regarding slip resistance classes, fire classes and decorative surface design.
- To reduce the temperature, odour, and smoke development of residual quantities that have already been mixed but are no longer required, we recommend mixing them with quartz sand in good time!

The information provided reflects average values that have been 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.

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Safety instructions

Product-specific information regarding composition, handling, cleaning, appropriate measures and disposal can be found in the safety data sheet.

Limiting and monitoring exposure
Personal protective equipment:
General protective and hygiene measures:
- Keep away from food, beverages, and animal feeds.
- Immediately take off dirty, soaked clothing.
- Wash hands before breaks and when finishing work.
- Avoid contact with the eyes and skin.

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

Hand protection:
- Protective gloves.
- The glove material must be impermeable and resistant to the product/substance/preparation. Glove material
- The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several materials, the resistance of glove materials cannot be forecast in advance and must therefore be checked before use.

Penetration time of the glove material
- The exact penetration time must be obtained from the protective glove manufacturer and observed.

Eye protection: Tightly sealed safety goggles.
Body protection: protective work 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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