MurePrime BGH 15
Bridge Primer Resin



> low-viscosity with high penetration into the concrete substrate
> heat-resistant when overlaid with polymer bitumen membranes
> tested according to RVS 15.03.12

Product description

The BGH 15 bridge primer resin is a 2-component epoxy resin primer for application on concrete substrates prior to the use of sealing systems on bridge constructions and other concrete traffic areas (e.g. parking decks) in accordance with RVS 15.03.12.

Surface protection system according to ÖNORM EN 1504-2
- Protection against the penetration of substances (Method 1.2)

Delivery format

Container	Outer packaging	Pallet
20 KG / BLE	-	16 BLE
10 KG / BLE	-	42 BLE

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

Processing

Mixing
The BGH 15 bridge priming resin is delivered in pre-measured containers of comp. A: 20 kg and comp. B: 10 kg (30 kg unit).
Stir component A thoroughly using a slower-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).
Decant (repot) the mixed material into a clean, dry container and stir again thoroughly.
When mixing partial amounts, weigh the components with a scale.
Avoid exposure to air when stirring.

Processing
Apply the mixed material to the substrate with a suitable tool, i.e. a roller or spatula, depending on the application.
Sprinkle with quartz sand as per RVS (grain size, grading curve).

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Technical data

Chemical base	2-component epoxy resin
Density	Component A: ~ 1.11 kg/litre Component B: ~ 1.04 kg/litre Mixture: ~ 1.1 kg/litre
Viscosity	Component A: ~ 760 mPa*s Component B: ~ 190 mPa*s Mixture: ~ 370 mPa*s
Consumption	Consumption rates are based on the standard application in accordance with RVS 08.07.03. Priming coat: ≥ 0.4 kg/m² Sealing coat: ≥ 0.3 kg/m² Scratch coat: ≥ 1.8 kg/m² (at a mixing ratio of 1:2, BGH 15 to quartz sand)
Mixing ratio	A:B = 2:1
Processing time	Initial material temperature +10 °C: ~ 70 minutes Initial material temperature +23 °C: ~ 30 minutes Initial material temperature +30 °C: ~ 20 minutes
Certificates/test reports/class achieved	EN 1504-2 RVS 15.03.12
Substrate temperature	min. +8 °C / max. +30 °C At temperatures above +30 °C, precautions must be taken to ensure faster processing!
Processing temperature	min. +8 °C / max. +30 °C At temperatures above +30 °C, precautions must be taken to ensure faster processing!
Permissible relative air humidity	≤ 80%
Minimum and maximum overcoating time	Component temperature +10 °C: min. 24 hours / max. 48 hours Component temperature +23 °C: min. 12 hours / max. 24 hours Component temperature +30 °C: min. 6 hours / max. 24 hours The maximum overcoating time refers to layers that have not been sanded.
Waiting time until walkability/application of waterproofing	Component temperature +10 °C: at least 24 hours Component temperature +23 °C: at least 12 hours Component temperature +30 °C: at least 6 hours
Waiting time before testing the pull-off strength	Component temperature +10 °C: min. 48 hours Component temperature +23 °C: min. 24 hours Component temperature +30 °C: min. 24 hours

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Substrate

Suitable substrates

The substrate requirements according to RVS 08.07.03 must be observed.
Concrete moisture content ≤ 4.0% by mass
Pull-off strength ≥ 1.5 MPa (individual value ≥ 1.3 MPa)

Product and processing instructions

Material instructions:
- The material properties may change significantly when working 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 dosing quantities or dilution information must be strictly adhered to!
- Check coloured products before use for colour accuracy!
- Colour consistency can only be guaranteed within a batch.
- The final shade of color is significantly influenced by the ambient conditions.
- Open the container carefully and stir the product well!
- A set of scales must be used to mix partial quantities!
- After mixing, reaction resins are to be processed as quickly as possible.
- Water-based systems can only be kept for a limited time after dilution with water; we therefore recommend that processing is undertaken as soon as possible.
- The amount of water specified by the manufacturer for water-based systems may only be added after components A and B have been mixed.
- Always allow primers to dry/cure well. - Odour formation of solvent-based systems must be observed.
- Applied reaction resins can be mechanically loaded after 3 days, and are chemically resistant after 7 days at a constant temperature of + 20 °C.
- UV exposure and exposure to certain chemicals can cause discolouration or yellowing on the surface, but this does not impair the functionality or suitability for use of the coating.
- The colour designations given (RAL, NCS,...) are to be understood as colour descriptions without guaranteed matching with the original colour chart.
- When using different products (on the same object),
no absolute colour match can be guaranteed, even with the same colour designation.
- Observe the colour change when adding quartz sand, thixotropic agent, setting agent, etc.!
- Residual quantities that are not needed and that have already been mixed must be mixed with quartz sand (smoke generation).

Environmental information:
- Do not process at temperatures below + 8 °C!
- The ideal temperature range for the 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 adequate ventilation during the drying, reaction, and hardening phases; avoid draughts!
- Protect from direct sunlight, wind, and weather! - Protect adjoining components!
- The substrate temperature must be at least 3 °C above the dew point.
(The corresponding dew point temperature can be determined via the prevailing relative air humidity and the air temperature from a dew point table.)
- Protect against contamination (dust, insects, leaves, etc.) during the reaction phase!
- If the specified time window between the individual work steps is exceeded, intermediate sanding is required!
- In UV-exposed areas, we recommend systems that are resistant to yellowing.
- Adhesive tensile strength: Average: ≥ 1.5 MPa
- Maximum residual moisture (CM measurement): 4% by mass
- The substrate must be pre-treated using 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 for all MUREXIN products used in the system.
- Keep a genuine original container of the respective batch for later repair work.
- In order to avoid overlaps and visible transitions from several working paths, they are to be processed offset in the case of longer lengths!
- Abrasive, scratching mechanical loads lead to signs of wear.
- Contact with car tires or other plastics containing plasticizers can lead to discolouration, imprints or softening of the surface.
- For defined structures with regard to anti-slip classes, fire classes and decorative surface design, see the "Service" section on www.murexin.com.

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- To reduce the temperature and odour & smoke development of residues that have already been mixed and are no longer required, we recommend mixing them with quartz sand in a timely manner!

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.

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.

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