

BONDING SLUDGE REPOL HS 1

- > ready mixed
- > adhesion enhancing
- > suitable for overhead work



Product description

Ready premixed mineral adhesive bridge for horizontal, vertical and overhead application areas as part of the concrete repair program. Adhesive bridges have low water requirements, so that high adhesive strengths are achieved also when processing at a soft consistency.

Indoors and outdoors for producing high quality adhesive bridges for composite screeds as well as concrete repair work on vertical and horizontal surfaces.

Delivery format:

Container	Outer packaging	Pallet
25 KG / PS		48

Storage:

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

Processing

Recommended tools:

Suitable mixing vessel, electric agitator, hard brush.
Carefully clean the tools after use.

Mixing:

Mix in a suitable mixing vessel with an electric agitator to the desired consistency with 3.5 - 5 litres of water per 25 kg paper bag of Repol bonding sludge HS 1 until homogeneous and lump-free.

Processing:

Pre-wet old concrete well. The correctly mixed adhesive bridge is applied to the slightly damp substrate and thoroughly brushed in. A completely enclosed adhesive bridge must be created with a most firm connection to the substrate. When applying the adhesive bridge, under no circumstances may there be puddles on the surface of the concrete. Then the mortar is applied and sealed, whereby you must ensure to always work wet-on-wet. An adhesive bridge that has already dried is to be removed and renewed.

Post-treatment

The post-treatment is to be adapted to the relevant standards and guidelines.

16705, BONDING SLUDGE REPOL HS 1, valid from: 15.05.2020, Magdalena Riegler, Page 1

Technical data

Density	approx. 1.8 kg/dm ³ bulk density
Colour	grey
Grain size	1,5 mm
Consumption	1,5 - 3 kg/m ²
Fire behaviour	Class A1
Processing temperature	above +5 °C
Processing time	approx. 15 - 30 min.
Water consumption	0,24 l/kg
Adhesive tensile strength (28 d)	approx. 2.0 mPa
Capillary water absorption	0.48 kg*m ⁻² *h ^{-0.5}

Test certificates

Tested in accordance with (standard, classification ...)
ÖNORM EN 1504-3:2006 als Systemkomponente

Substrate

Suitable substrates:

The substrate meets the requirements of the OVBB Guideline – Conservation and Rehabilitation of Concrete and Reinforced Concrete Structures. Furthermore, the substrate must be load-bearing and free of similar and dissimilar substances as well as substances that have a separating effect, corrosive media, such as chlorides, and must be pre-wetted for at least 12 hours before restoration until capillary saturation. Adhesive tensile strength at least 1.5 N/mm². Compressive strength at least 25 N/mm².

Suitable on all standard mineral substrates. Not suitable on wood, plastic, metal, water-repellent substrates.

For a perfect system

Description:

REPOL crack and substrate reinforcement:

- Injection packer IP 10, water stop foam PU 14, injection resin EP 16 / PU 18

REPOL substrate preparation:

- Ferrosave reinforcing protection BS 7, bonding sludge HS 1, bridge insulation EP 70 BI

REPOL concrete repair mortar, concrete and levelling filler:

- Repol restoration mortar SM 20 / SM 40 / LM 20 Light, ready-mixed quick mortar FM 20 H / FM 20 TS
- Repol concrete filler BS 05 G / BS 10 W, levelling filler ES 03 / ES 10, concrete cosmetic BK 05

REPOL surface protection and repair:

- Repol evaporation protection CS 1, epoxy impregnation EP 1, silicon impregnation S 4, concrete colour BF 1

Product and processing instructions

Material information:

- If processing outside the ideal temperature and/or humidity range the material properties could change markedly.
- Bring the materials to the proper temperature before processing!
- In order to maintain the product properties, do not add any foreign materials!

16705, BONDING SLUDGE REPOL HS 1, valid from: 15.05.2020, Magdalena Riegler, Page 2

Concrete and Screed Technology

- Water dosing quantities or dilution information must be strictly adhered to!
- Check tinted products for colour accuracy before application!
- Colour consistency can only be guaranteed within the same batch.
- The colour formation is significantly impacted by the environmental conditions.

Environmental information:

- Do not process at temperatures below +5 °C!
- The ideal temperature range for the material, substrate and air is + 15 °C to + 25 °C.
- The ideal relative humidity range is 40% to 60%.
- Increased air humidity and/or lower temperatures may prolong the drying, setting and hardening time, while lower air humidity and/or higher temperatures will speed it up.
- Ensure adequate ventilation during the drying, reaction and hardening phase; avoid draughts!
- Protect against 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.
- Please heed the product data sheets of all MUREXIN products used in the process.
- 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

Please refer to 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:

- Keep away from foodstuffs, beverages and feedstuffs.
- Take off contaminated, impregnated clothing immediately.
- Wash your hands before taking breaks and when finishing work.
- Avoid contact with the eyes and skin.

Breathing protection: breathing protection is recommended.

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. 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 found out from the protective glove manufacturer and complied with.

Eye protection: tightly sealed protective goggles.

Body protection: 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.