BONDING SLUDGE HS 1

> suitable for overhead work
> ready mixed
> adhesion enhancing

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	-	42 PS

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

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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.

Technical data

Density	approx. 1.8 kg/dm³ bulk density
Grain size	1,5 mm
Colour	grey
Consumption	1,5 - 3 kg/m²
Processing time	approx. 15 - 30 min.
Processing temperature	above +5 °C
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

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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!
- 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 temper
atures 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.

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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.

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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