MDS

Mineral sealing slurry, rigid

quick-mix
A trademark of sievert

Mineral, rapid-hardening coating

- with general building regulations test certificate P-5391/736/13 MPA-BS
- impermeability certified according to DIN EN 12390-8 (28 days, 1.5 bar)
- compressive strength: ≥ 20 N/mm²
- preparation time: approx. 45 minutes

APPLICATIONS

- for vertical and horizontal waterproofing of buildings and components
- in the area in contact with the soil, against ground moisture and non-standing seepage water and non-pressing water according to building test certificate
- Intermediate waterproofing according to DIN 18533-3 between substrate and planned waterproofing to be carried out with plastic-modified thick bitumen coating (PMBC)
- For sealing tanks and basins in solid construction according to DIN 18535 indoors and outdoors in water impact class W2-B up to 6 m water depth, crack class R0-B, location S1-B
- in the wall and floor area

PROPERTIES

- waterproofing up to 6-metre head of water
- Impermeability when installed according to PG MDS

COMPOSITION

- cement in accordance with DIN EN 197-1
- mineral additives according to DIN EN 13139

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SUBSTRATE

Suitable substrates	■ normal concrete ■ flush-jointed masonry ■ Cement plasters ■ Cement screeds
Reviews	■ The substrate must be firm, load-bearing, free of deformation, dry, free of dust, loose parts, oil, grease and other release agents. ■ Concrete must be at least 3 months old according to DIN 18535 - Sealing of tanks and basins in solid construction.
Pretreatment	■ Carefully remove adhesion-reducing layers and contamination, e.g. dust, sinter layers, efflorescence or release agent residue, using suitable measures. ■ Coats of paint and other separating layers are to be removed. ■ Bumps, flaws, gravel pockets and cavities in the area being coated are to be filled evenly with mineral filling compound. Carefully remove ridges and loose parts. ■ Edges are to be broken and coving is to be carried out with a suitable mortar, e.g. quick-mix SAN-S Sperrputz or akurit UNI-SD Universal Sockel-Dicht, in a radius of 40 to 60 mm. ■ Pre-wet substrate evenly, matt damp. ■ Pre-treat highly absorbent substrates with AKURIT GAB absorption barrier (maximum dilution ratio 1:1 with water).

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PROCESSING

Temperature	■ Do not process or allow to dry out at air, material or substrate temperatures below +5°C, or if there is a risk of exposure to night frost, or at temperatures above +30°C, or in direct sunlight, or on heated up surfaces, and/or in windy conditions.
Mixing / Preparation / Processing	■ Use a suitable agitator to mix the material until smooth and free of lumps. Leave to develop for a moment and then mix again. ■ Working consistency: spreadable and trowelable ■ The mixed product can be pumped and sprayed using conventional delivery pumps. ■ Do not mix with other products and/or other substances.
Applying	■ Apply material evenly and fully on the substrate with a suitable tool, e.g. a firm brush, wall brush, trowel or by spraying in 2 to 3 work stages in a spreadable consistency approx. 1-2 mm or in a trowelable consistency approx. 2-3 mm. The first application is done by spreading with a brush, whereby the sealing slurry must be applied intensively and evenly to seal the surface. ■ Between the work stages, depending on weathering, a drying time of approx. 2 hours is to be complied with (at +20 °C and 65% relative humidity). ■ The following application may only be done once the previously applied layer is sufficiently firm. ■ Wet layer thicknesses: 4.0 mm in case of ground moisture[1)] and non-standing seepage water[1)] 4.0 mm in case of non-pressing water[1)] [1)] the application does not meet DIN 18533. The execution is to be agreed with the client in writing. ■ Maximum wet layer thickness: 5 mm
Processing / Working time	■ approx. 45 minutes ■ When processing by machine, process within approx. 15-20 minutes (hose idle period) ■ The stated times apply for a temperature of +20°C and relative humidity of 65%. ■ Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.
Drying / Hardening	■ The freshly coated area is to be kept damp for at least 24 hours and protected from drying out too quickly. ■ If the weather conditions are unfavourable (e.g. driving rain, frost, strong sunlight and/or winds), then suitable protection measures must be taken, particularly in the case of freshly coated surfaces.
Subsequent coating / Suitability for coating	■ The waterproofing is to be protected against damage by means of protective/wear layers according to DIN 4095 or DIN 18533 / DIN 18535. ■ For plastering with wall-base plasters, the fully dried out sealing slurry must be prepared with a suitable mineral bonding bridge.
Cleaning the tools	■ Clean all tools and equipment with water immediately after use.
Notes	■ Non-crack-bridging (rigid) mineral sealing slurries are not able to bridge emerging and moving cracks. Cracked surfaces, which are subject to further changes in the width of cracks, cannot be sealed with rigid mineral sealing slurries either. ■ For structural waterproofing work, the current DIN 18533, DIN 18535 and the “Guideline for the Planning and Execution of Waterproofing of Building Components with Mineral Waterproofing Slurries”, published by Deutsche Bauchemie e.V., must be observed. ■ The waterproofing is to be protected against damage using suitable measures.

PACKAGING

■ 25 kg/sack

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STORAGE

- Store sacks appropriately and in dry conditions on pallets.

QUANTITY REQUIRED / YIELD

- consumption: approx. 6.5 kg/m² acc. to application
- yield: app. 17 l fresh mortar per 25 kg/sack

TECHNICAL DATA

Compressive strength	≥ 20 N/mm²
Water requirement	approx. 6.0 l per 25 kg/sack
Processing temperature	+5°C to +30°C
Processing time	approx. 45 minutes
Rain resistance	after approx. 90 minutes
Walkability	after approx. 24 hours
Minimum dry layer thickness	for soil moisture and non-accumulating seepage water according to abP: 3.0 mm for non-pressing water according to abP: 3.0 mm water impact class W2-B: 3.0 mm

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

SAFETY AND DISPOSAL INSTRUCTIONS

Safety	■ This product produces an alkaline reaction when it comes into contact with moisture/water. Therefore ensure that skin and eyes are protected. If it should come into contact with the skin or eyes, rinse them thoroughly with water. See a doctor immediately if it comes into contact with the eyes. ■ Follow further instructions in the safety data sheet.
GISCODE	■ ZP1 (products containing cement, low-chromate)
Disposal	■ Completely empty and recycle the packaging. ■ Dispose of the material in accordance with the official regulations.

GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.

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