

IPA DICHTSCHLÄMME BHD

Cement-based slurry for high pressure waterproofing

Product description:

IPA DICHTSCHLÄMME BHD is a mineral cement-based waterproofing slurry with high sulphate-resistance.

Application areas:

IPA DICHTSCHLÄMME BHD for waterproofing of structures, in contact with soil, such as manholes, sewage collectors, concrete floors, sewers, water containers and reservoirs.

It's also suitable to seal against capillary water, soil humidity, non-pressuring surface water and leachate as well as positive or negative waterproof-ing in new buildings and in the renovation of exis-tent buildings.

Test certificate:

Hygiene Institut Gelsenkirchen, DVGW-Work Sheet W347 „hygienic requirements for cement-bound materials for drinking water supply“

Mode of action/characteristics

The hardened waterproofing slurry IPA DICHTSCHLÄMME BHD

- is impervious up to a water load of approx. 7ba (70m Wc).
- is particularly resistant against sulphate at-tack in compliance with DIN 4030
- is toxicologically harmless
- is compatible with potable water.
- is highly water vapour breathable
- has a good adherence on mineral cement-compatible substrates.

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Technical data:

Colour		grey powder
Material basis		cement-based
Powder density		approx. 1,35 kg/dm ³
Mix liquid		clean water
Mix liquid requirement		approx. 0,22 l/kg
Processing time		approx. 1 hour (depending on temperature)
Water impermeability		up to 70 m water column
Days	Compressive-strength	Flexural strength
1 Day	48,0 N/ mm ²	
28 Days	58,0 N/ mm ²	8,7 N/ mm ²
Adhesive strength		2,5 N/ mm ²
Mechanical resistance		excellent
Resistance to UVA and UVB radiation		resistant because of cement based binder system
Water vapour diffusion		μ (H ₂ O) = 58
Delivery form:		25 kg-Sack
Storage		in the unopened, original packing in dry rooms.
Storage temperature		at+5°C at +30°C
Durability		12 months with appropriate storage
Material consumption		approx. 2 - 3 kg/m ² with soil humidity and non-pressuring water ; approx. 4-5 kg/m ² with pressuring water

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Substrate preparation:

Cleaning processes such as shot-blasting processes, compressed air blasting with solid blasting agents, milling, flame-blasting etc. are suitable. All loose parts and non-binding agents such as oils, grease, coating residuals, cement sinter layers must be removed up to the sustainable substrate in order to provide a good adhesive compound. Recommended substrate adhesive tensile strength 1,5 N/mm². Substrate must be capillary wet exceeding water has to be removed. In case of new concrete substrates please maintain an adequate setting time, e.g. 28 days. Eventually avoid cement slurries on the concrete substrate by means of crosswise broom strokes. Remove any residues which could prevent good adhesion of further coatings.

Surface levelling:

Repair spalled parts and equalize uneven substrate depths with Ipa repair mortars like Unimörtel Rapid, or Ipa Unimörtel conc Repair mortar.

Close pores and small holes with IPA DICHTSCHLÄMME BHD under addition of silica sand. The next layer should not begin before complete setting of these preliminary repairs, anyway not before 2 days.

Mixing procedure:

Mix homogeneously IPA DICHTSCHLÄMME BHD powder with clean water by means of a slowly run-ning agitator. Begin to mix IPA DICHTSCHLÄMME BHD only with very few water until the enclosed air has passed off. Only then the mix may be diluted with more water until obtaining a "creamy" consistency. The mixed material must be stiff enough not to drop off the slurry brush.

Application:

IPA DICHTSCHLÄMME BHD may be applied by painting- or spraying method on prepared, well moistened substrates in two or three layers. Apply with constant layer thickness using 2 kg/m² of material per layer in order to avoid coating defects. The substrate temperature during working process and 72 hours after should be at least 5°C, but not exceeding 30°C; the relative air humidity may not exceed 80%. The

minimum material temperature should be 10°C and not exceed 30°C. Waiting time between two layers is 6–24 hours. The previously applied layer should be hardened enough so that no damage will be raised application of the next layer. During the working process and 24 hours after, the surfaces must be protected against rain and intense solar irradiation.

Protection of the waterproofing:

The slurry waterproofing may be protected by suitable measures against mechanical damages, e.g. during the refilling of the excavation pit, driving on soil surfaces.

After treatment:

Special protection measures, e.g. covering with canvas covers, cloths etc. may be carried out with strong solar irradiation, rain- and frost impact. The after treatment may be carried out along to the norms of cement coated materials.

Cleaning and disposal:

The working tools are cleaned with clean water. De-livery packages, material residuals, also mix containers are to dispose in accordance to the official disposal norms.

Disposal code in hardened condition:

LAGA-no. 314 09 EWC-no. 17 01 01

Security advice:

During work please wear protection clothes, protection glasses and protection gloves. During the working process don't smoke, eat or drink! Avoid strong formation of dust. In case of skin contact and splashes in the eyes immediately flush at least for 15 minutes with clean water. It is recommended to keep ready a eye flushing bottle with a sterile solution in order to flush thoroughly. Afterwards immediately consult a oculist. Please respect the security data sheets and the norms of the professional associations about treating of cement coated materials.

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