



Safety data sheet

IPA Dichtschlämme

Status: 05.01.2024 Version: 1

Cement-bound ready-to-use sealing slurry

Product description:

IPA Dichtschlämme is a factory-mixed mineral waterproofing product in accordance with DIN 18 557 based on cement.

Examination certificate:

of the Hygiene Institute of the Ruhr Area, Gelsenkirchen, test report no. C-132140-05-Sf in accordance with DVGW worksheet W347 - "Hygienic requirements for cementitious materials in the drinking water sector.

Areas of application:

IPA Dichtschlämme is suitable for sealing components in contact with the ground such as cellars, underground garages, swimming pools, concrete floors etc. as well as drinking water tanks and water reservoirs against capillary water;

Soil moisture, non-pressurized surface water; seepage water and pressurized water, as interior and exterior waterproofing, in new buildings and in the renovation of old buildings. IPA Dichtschlämme BHD can only be used on substrates that are not contaminated with salts harmful to the building.

Mode of action/properties:

The cured IPA Dichtschlämme is:

- Impermeable to water up to a water load of 7 bar or 70 m water column
- Good water vapor diffusion properties
- Compatible with drinking water
- Toxicologically safe
- Adheres very well to mineral, cement-compatible substrates
- Meets the requirements of the technical data sheet "Cement-bound rigid and flexible sealing slurries" from Deutsche Bauchemie e.V.

Processing instructions Substrates:

Concrete surfaces, screeds, cement plasters, masonry and all IPA concrete repair and restoration mortars.

Requirements for the building:

The components or structures to be coated should be and remain free of cracks, must have sufficient strength and must not be subject to deformation. Waterproofing with IPA Dichtschlämme on mixed masonry is not permitted.



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Substrate preparation:

Cleaning the surfaces in accordance with ZTV-SIB 90, e.g. using cleaning methods such as: Shot blasting, compressed air blasting with solid abrasives, milling, flame blasting, etc. Remove all loose parts and binding substances such as oils, greases, coating residues, cement sinter layers down to the load-bearing substrate to create a good adhesive bond. Recommended surface adhesive tensile strength 1.5 N/mm². The substrate must be pre-saturated with capillary water, standing water must be removed (matt damp surface).

Additional recommendation for young concrete surfaces:

Observe an appropriate setting time, e.g. 28 days. If necessary, prevent cement slurries on the concrete surface by brushing crosswise. Remove curing and demolding agents.

Fault and roughness depth compensation in the substrate:

Use IPA Unimörtel Konz or IPA Unimörtel Rapid to profile or level out imperfections and rough depths. Scrape fillers to close pores and cavities in IPA Waterproofing Grout BHD, if necessary with the addition of quartz sand (see corresponding product information IPA Unimörtel Konz, IPA Unimörtel Rapid, IPA Waterproofing Grout BHD). IPA Waterproofing Grout BHD should only be reworked after the imperfections or roughness depth has completely set, but after 2 days at the earliest.

Mixing process:

Mix IPA Dichtschlämme Trockenmörtel with homogeneously with clean water or IPATOP Liquid AMF using a slow-running agitator. It is essential to ensure that IPA Dichtschlämme is first mixed with very little water or IPATOP Liquid AMF (depending on the area of application) until the trapped air has escaped. Only then is the mixture diluted by adding more mixing liquid until a cream-like consistency is achieved. The mixed material must not drip off the ceiling brush.

Processing:

IPA Dichtschlämme can be applied by brushing or spraying onto the prepared, well-moistened surfaces in several coats. Care must be taken to ensure that uniform layer thicknesses are achieved, approx. 2 kg/m² material consumption per slurry application, as otherwise defects may occur in the coating. The substrate temperature during application and 72 hours thereafter should be at least +5°C, but not more than +30°C, and the relative humidity should not exceed 80%. The material temperature should be at least +10°C and Do not exceed +30°C.

The waiting time between the individual slurry applications should be 6 - 24 hours. It is important to ensure that the previous slurry application has set sufficiently to prevent damage from the next application. During application and for 24 hours afterwards, the surfaces must be protected from rain and intense sunlight.



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Special notes:

For external seals, it is advisable to additionally apply IPA Elastikschlämme to the slurry seal. To prevent condensation from forming on interior seals, the wall surfaces must be treated with IPA Sanierputz (see IPA Sanierputz product data sheet). For detailed sealing solutions, please refer to the "Information sheet on cementitious rigid and flexible sealing slurries" from the Industrieverband Deutsche Bauchemie e.V., Karlstraße 21, 60329 Frankfurt.

Protection of the seal:

Suitable measures must be taken to protect the slurry seals from mechanical damage, e.g. when filling the excavation pit, driving on ground surfaces, etc. The rules for processing cement-bound building materials apply.

Follow-up treatment:

The applied slurry seal must not be re-wetted during the setting process. Special protective measures, e.g. covering with tarpaulins, cloths, etc., must be taken in the event of strong sunlight, exposure to rain and frost. The rules for post-treatment of cement-bound building materials apply.

Cleaning and disposal:

Clean tools and containers with plenty of water immediately after use! Do not dispose of residual quantities of the mixed material in the sewage system. Disposal code in hardened state: LAGA-No. 314 09 EWC-No. 17 01 01

Occupational safety:

Safety advice: Please wear protective clothing, safety goggles and protective gloves when working. Do not smoke, drink or eat during processing! Avoid heavy dust formation. In the event of skin contact and splashes in the eyes, rinse immediately with clean water for at least 15 minutes. It is recommended to have an eye wash bottle with the sterile solution ready to rinse eyes thoroughly. Then consult an ophthalmologist immediately.

Technical data:

Material base	Cement-bound
Color	Gray
Bulk density	approx. 1.35 kg/dm ³
Mixing liquid	Clean water
Mixing liquid requirement	Approx. 0.22 l/kg



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Processing time	Approx. 1 hour (depending on temperature)
Water impermeability	up to 70 m water column

Compressive strength

24 hours	48.5 N/ mm ²
28 days	58.5 N/ mm ²
Flexural strength 28 days	8.7 N/ mm ²
Adhesive tensile strength	2.5 N/ mm ²
Diffusion resistance (d = 1 mm)	sd (H ₂ O) = 0.013 m
Material consumption	approx. 2 - 3 kg/m ² for ground moisture with non-pressing water. approx. 4 - 5 kg/m ² with pressurized water
Delivery form	25 kg paper bag with poly liner
Storage	Store in the unopened original packaging in dry rooms. The storage temperature should not fall below +5°C and not exceed +30°C.
Storage stability	6 months if stored properly