

IPA TRINKWASSERSCHLÄMME TW

White cement based waterproofing slurry for coatings of potable water reservoirs

Product description:

IPA Trinkwasserschlämme TW is a white mineral cement-based waterproofing slurry for sealing of mineral constructions and potable water constructions

Test certificate:

Hygiene Institut Gelsenkirchen, DVGW-Work Sheet W347 „hygienic requirements for cement-bound materials for drinking water supply“
Hygiene Institut Gelsenkirchen, Propagation of micro-organismus on the surface of materials used in the area of drinking water to the statutory provision DVGW Technische Regeln, work sheet W 270.

Application areas:

IPA Trinkwasserschlämme TW for waterproofing of structures, in contact with potable water. It's also suitable to seal against capillary water, soil humidity, non-pressuring surface water and leachate especially of the visual aspects

Mode of action/characteristics

The hardened waterproofing slurry IPA Trinkwasser-schlämme TW
Is specially designed for contact with potable water
is toxicologically harmless
is tested together with Ipa concrete rehabilitation system
is highly water vapour breathable
has a good adherence on mineral cement-compatible substrates.

Substrates:

All concrete substrates, masonry, cement plaster and floors and all IPA repairing mortars.

Requirements:

Components to be coated or constructions should be and remain free of cracks and be sufficiently resistant. Components must not be deformable. IPA Trinkwasserschlämme TW is not suitable for waterproofings on mixed masonry.

Technical data:

Colour	white powder	
Material basis	cement-based	
Powder density approx.	1,28 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 15 m water column		
Days	Compressive-strength	Flexural strength
2 Day	26,0 N/ mm ²	
28 Days	56,0 N/ mm ²	10,5 N/ mm ²
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.	1,2kg/m ² and per layer	

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 after any agents which could prevent good adhesion of further coatings.

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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 Dicht-schlämme BHD under addition of silica sand. The next layer should not begin before complete setting on these preliminary repairs, anyway not before 2 days.

Mixing procedure:

Mix homogeneously IPA Trinkwasserschlämme TW powder with clean water by means of a slowly run-ning agitator. Begin to mix IPA Trinkwasserschlämme TW 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 Trinkwasserschlämme TW may be applied by painting- or spraying method on prepared, well mois-tened substrates in two or three layers.

Apply with

constant layer thickness using 1,2 kg/m² of material per layer in order to avoid coating defects. The sub-strate 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 ex-ceed 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 irra-diation.

Protection of the waterproofing:

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

After treatment:

Special Hint: Area to be coated with IPA Trinkwas-serschlämme TW must be dried befor application of slurry in order to avoid condense water to bother the hydration process of the slurry. Special protection measures, e.g. covering with can-vas 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 contain-ers are to dispose in accordance to the official dis-posal norms. Disposal code in hardened condition: LAGA-no. 314 09 EWC-no. 17 01 01

Security advice:

During work please wear protection clothes, protec-tion glasses and protection gloves. During the work-ing process don't smoke, eat or drink! Avoid strong formation of dust. In case of skin contact and splash-es 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.

Version 11/18

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IPA Bauchemische Produkte GmbH Riedhof 5 – 82544 Egling – Tel. 08171-9990600 – Fax 08171-99906020 – E-mail: info@IPA.de Internet: www.ipa.de oder www.ipanex.de