

IPA LIQUID ph+

Synthetic dispersion for addition into cement based mortar systems

Product description:

IPA LIQUID ph+ is a waterbased, ready for use synthetic dispersion for addition into mineral mortars and plasters with hydrolysis resistance.

Application areas

IPA LIQUID ph+ is suited as mix liquid for the cement based flooring mortars Ipa Mörtel floor MF 5, Ipa Mörtel floor MF 10 and Ipa Mörtel floor MF 20, the repairing mortar IPA Mörtel Kanal ph+ and for the highly sulphate-resistant slurries Dichtschlämme Kanal ph+, Ipa Mörtel Kanal ph+. IPA LIQUID ph+ is suited for mixing screeds, plasters and mortars for the following applications: For caulking of wall- and nature stone constructions, as adhesive agent and adhesive bridge for mortars, plasters and insulation panels between reinforced concrete and plaster.

For mixing of

- cement mortars with high chemical resistance up to ph 4
- wear-resistant coatings in water constructions, sewers, sewage plants, waste water funnels etc.
- repairing-, levelling- and mending mortars for concrete repairing.

Mode of action/ (characteristics)

Through adding of IPA LIQUID ph+ in cement-based mortar systems the following improvement of the characteristics are possible:

- Increase of the adhesive tensile strength on steel, concrete and other mineral surfaces
- Improvement of wear- and grit resistance
- Decrease of shrink- and shrivel tendency, increase of bending tensile- and compression strength
- decrease of the E-module
- Increase of chemical resistance, especially against deicing salt, engine oil, bitumen and aggressive waste water
- decrease of water absorption, sealing increase, improvement of frost-/ thaw change resistance, decrease of water cement factor, increase of water retention efficiency, improvement of workability.

Technical data:

Material basis	modified synthetic dispersion
Colour	milky-white
Density	1,01 kg/l
Minimal Film-	+ 3 ° C
Binding temperature Storage	protect from frost, not over +50° C
Storage durability	1 year in unopened packages
Delivery form	in 10-kg, 25-kg and 1000kg-plastic packages

Working instructions:

Clean thoroughly surface from parts, paint residuals, formwork oil residuals etc. Clean eventually surface through grinding, sand-, vapour- or flame-blasting. Pre-treat insulated, not absorbing surfaces such as artificial and natural stone, watertight concrete, sealing plasters with undiluted IPA LIQUID ph+. Apply wet in wet the adhesive bridge on the still wet surface. The slurry is suited for IPA Mörtel Kanal ph+ and mortars mixed on the site.

Adhesive bridge:

Consumption per 1 m² and 1 mm layer thickness: 2kg IPA Mörtelhaftbrücke HB and 1 kg IPA LIQUID ph+. For producing of an adhesive bridge mix thoroughly the content of a sack IPA Mörtelhaftbrücke HB (10 kg) with approx. 5 kg IPA LIQUID ph+ using a slowly running agitator in order to get creamy slurry mass. Apply that mass evenly in a layer thickness of 2 - 3 mm with a paint brush or tassel exactly on that surface, on which can be placed fresh in fresh the plaster or screed within the short setting time of IPA Mörtelhaftbrücke HB (because of the short setting time of IPA Mörtelhaftbrücke HB).

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For using IPA LIQUID ph+ with IPA Dichtschlämme Kanal ph+ or IPA Mörtel Kanal ph+ see corresponding data sheets

Polymer-modified plasters:

Consumption: approx. 10 l mortar (20 kg dry mortar and 1,5 kg IPA LIQUID PH+) per 1 m² and 1 cm layer thickness; Pre-mix a dry sand-/cement-mix of three room fractions of sand * (0 - 4 mm acc. to DIN) and one room fraction dry Portland-cement (PZ 35 F). Add approx. 0,60 parts by volume IPA LIQUID PH+ to the above mentioned mix and agitate thoroughly in order to get a trowable or machine-applicable consistency of the plaster. Wet application of the plaster by machine or trowel. Surface may be structured after a setting time of approx. 3 hours.

Plastic-coated screeds:

Consumption: approx. 10 l mortar (approx. 25 kg dry mortar and approx. 1,2 kg IPA LIQUID ph+) per 1 m² and 1 cm layer thickness; Pre-mix thoroughly a dry sand-/cement-mix with three volume parts (VP) of sand (washed, clean sand without foreign matters) with suitable sieve line and granulation and one VP of dry cement (PC 32,5 R) and mix the mass then with approx. 0,45 VP of IPA LIQUID ph+ in order to get a humid screed mortar. Apply this screed mortar as compound-layer on the humid and still adhesive-active adhesion bridge in order to get a layer of max. 35 mm thickness, density and abrade it.

Attention:

Divide big surfaces und grout them; maintain construction joints. If necessary, install screed tissues. Keep humid the screed for some day. Re-profile pits and angle breakages in a separated working process and carry out a right-angled levelling.

For treatment and after-treatment of plaster, screed and mortar coated with IPA LIQUID ph+ are applying the norms for cement-working according to DIN 1045, e.g. regarding the avoiding of heat, frost and strong wind during and up to 24 hours after application. Keep humid for a proper time period. Clean working tools and agitator only with water!

Safety at work:

Follow strictly the norms of the professional associations of the chemical sector. Work only with gloves and protective glasses. Avoid skin contact with the product. Use hand-protection-crème for better hand protection. In case of skin contact and splashes in the eyes immediately flush at least for 15 minutes with plenty of clean water and consult then immediately a doctor.

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