



IPA Mörtel Fußboden MF5

Polymer-modified, cement-based mortar for coating of floors

Product description:

IPA Mörtel Fußboden is a 2-component, cement-based mortar for the coating of all mineral, horizontal and vertical substrates of building material – consisting of a premixed mortar powder component and the mixing liquid IPA Liquid ph + a waterbased Acrylate.

Application areas:

The minimum layer thickness should amount to 0 mm to the maximum of 5 mm.

IPA Mörtel Fußboden MF5 is suited to the coating of multi-storey car parks, industrial grounds, roads for tanks, car wash, bridge caps, loading ramps, underwater structures, sidewalks etc.

Mode of action (characteristics):

IPA Mörtel Fußboden MF5 is

- frost resistant,
- impervious to water,
- can be used on humid substrates and,
- has excellent water vapour diffusion characteristics,
- has high mechanically resistance,
- can be loaded chemically down to pH 4 and
- has very good adherence on mineral substrates.

IPA Mörtel Fußboden MF5 has high early strength and is therefor loadable:

accessible after 1 day - passable after 3 days.

It prevents the penetration of chloride.

Preparation of the subsoil:

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.

Oil contaminated surfaces can be treated with IPA

Ölreiniger. Substrate must be capillary wet exceeding water has to be removed.

Note:

In case of new concrete substrates please maintain an adequate setting time, e.g. 14 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.

Technical data:

	IPA Mörtel Fußboden MF 10	IPA Liquid ph+
delivery form	powder	liquid
color:	grey	milky
Apparent density/Density:	ca. 1,80 g/cm ³	ca. 1,04 g/cm ³
Max. grain size	2,0 mm-	
Fresh mortar		
Gross density	2,165 g/cm ³	
Beginning of solidification after approx 3h		
End of solidification	after approx 5 h	
Air inclusion content	in Vol approx 9,3%	
Mix liquid need in weight	approx 13-15 %	
working time	40 - 60 minutes based on temperature and air humidity	
Solid mortar		
Gross density:	2,15 g/cm ³	
Strengths in N/mm ²	compression	flexural tension
1 day	24,3	6,6
7 days	46	12
28 days	61	15,9
Shrinkage in mm/m	after 1 day	= 0,11
Shrinkage in mm/m	after 28 days	= 0,55
Adhesive strength on concrete	3,82N/mm ² break in the mortar	
Frost/ thaw resistance:	at the end of a 50-days cycle no change	
Delivery Form		
IPA Mörtel Fußboden MF 5	25 kg bag	
IPA Liquid ph+	10 kg plastic jug 25 kg plastic jug	
Storage durability	aprox 12 months with appropriate storage (+5-30°C, dry) in unopened original packing	

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Polymer-modified, cement-engaged mortar for coating of floors

Surface levelling:

Repair spalled parts and equalize uneven substrate depths with IPA Mörtel Fußboden MF5. The next layer should not begin before complete setting of these preliminary repairs, anyway at the earliest, after 24 hours.

Mixing method adhesive layer:

IPA Liquid ph + is mixed with IPA Mörtelhaftbrücke HB in the proportion: 1 Part IPA Liquid ph + : 2 Parts IPA Mörtelhaftbrücke HB (Powder), by means of a slow-running mixing device to a homogeneous mix and creamy consistency.

Mixing method IPA Mörtel Fußboden MF5:

Pour IPA Liquid ph + into a clean mixing vessel (shake IPA Liquid ph+ Liquid to homogenise) and then add dry mortar component IPA Mörtel Fußboden MF5

(1 bag (25 kg) IPA Mörtel Fußboden MF5 and 2,90 -3,40 kg of IPA Liquid ph +). By means of compulsory mixer mix approx. 2 minutes intensely and to a homogeneous mix. After a maturation time of approx. 5 minutes mix again approx. 1 minute.

Treatment:

The adhesive layer is generously applied first on the prepared surfaces by means of a brush or a broom.

Then apply manually fresh in fresh the IPA Mörtel Fußboden MF5 in an even layer thickness (10 - 15 mm), or apply it with spray method in case of wall- or ceiling surfaces, densify, trim and abrade it to a smooth surface. The surface temperature during and up to 72 hours after working should be at least + 5° C and not exceed + 30° C, relative air humidity should not exceed 80 %. Material temperature should be at least + 10°C and not exceed + 30°C. During and up to 72 hours after working surfaces must be protected from rain, wind and intense solar irradiation. Follow the norms for the treatment of cement-coated construction materials.

Consumption:

Approx 2,0 kg IPA Mörtel Fußboden MF5 und approx. 0,26 kg IPA Liquid ph+ per mm and m²

Special instructions:

Before use of IPA Liquid ph + it must be homogenized by shaking or agitation. At 20°C temperature, material temperature and underground temperature IPA Mörtel Fußboden MF5 - coatings can be loaded in ventilated rooms after 24 hours with water. In case of intense solar- or wind exposure surfaces must be protected from desiccation by means of covers. Protect from rain and frost. Follow the norms about after-treatment of cement-coated construction materials.

Cleaning and disposal:

Clean working tools with clean water. Delivery packages, material residuals, also mix containers must be disposed in accordance to the official disposal norms. Disposal code in hardened condition: LAGA-no. 314 09 EWC-no. 17 01 01.

Safety at work:

During work please wear protection clothes, protection glasses and protection gloves. Don't smoke, eat or drink during the working process! 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 an eye flushing bottle with a sterile solution in order to flush the eyes thoroughly. Afterwards immediately consult an oculist. Please respect the security data sheets and the norms of the professional associations about treating of cement coated materials.

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