



# IPA UNIMÖRTEL KANAL PH+

## Resin modified repair mortar for waste water plants

### Product description

Ipa Unimörtel Kanal ph+ is a dry mortar according to DIN 18557 consisting of cement according to DIN 1164, silica sand, additional agents and additives.

### Application areas

Ipa Unimörtel Kanal ph+ is suitable in combination with Ipa Liquid ph+ for re-profiling of blow-outs in sewage plants, sewages, collectors, concrete pipes, concrete sewage rings etc.

Ipa Unimörtel Kanal ph+ is also suited for

- □setting sewage rings
- □subsequent caulking of sewage rings
- caulking of brick wall- and natural stone wall constructions
- laminar application on mineral surfaces

### Mode of action/characteristics

Ipa Unimörtel Kanal ph+

- is rapidly hardening
- well workable
- is waterproof
- has a high wear resistance
- has a good resistance against chemicals
- has a low shrinkage tendency
- has a good surface adherence
- may be soon exposed to water

### Working instructions

#### Surface

The surface must be solid and free of anti-adhesive parts. Eventually derust reinforced steel and coat with IPATOP MKH, see product data sheet. Surface must be moistened in advance in order to make it capillary saturated (surface dully wet). Remove still water.

#### Adhesive slurry

In order to form a homogeneous compound with the concrete surface, Ipa Unimörtel Kanal ph+-mortar requires adhesive slurry consisting of 2 weight fractions Ipa Unimörtel konz and 1 weight fraction Ipa Liquid ph+, see product data sheet Ipa Liquid ph+. Brush it thoroughly in the surface, i.e. with an overhead- or a coarse scrubbing brush. Don't apply slurry on more than 2 m<sup>2</sup> at a time in order to maintain the adhesive activity of the adhesive bridge.

#### Cleaning and disposal

Clean working tools and containers immediately after use with water. Don't pour residual quantities of mixed material in canalization. Disposal codes in hardened condition: LAGA-no. 314 09 EWC-no. 17 01 01

### Technical Data

<b>Material basis</b>	Cement, silica sand additives	
<b>Colour</b>	concrete-grey	
<b>Aggregate-grain size</b>	1 mm	
<b>Apparent density</b>	approx. 1,62 kg/dm <sup>3</sup>	
<b>Mix liquid</b>	Ipa Liquid ph+	
<b>Mix liquid demand</b>	approx. 0,13 l/kg	
<b>Workability time</b>	at 30°C < 15 minutes at 20°C < 30 minutes at 5°C < 60 minutes	
<b>Material consumption</b>	approx. 2,0 kg Ipa Unimörtel Kanal ph+/m <sup>2</sup> /mm layer thickness	
<b>Fresh mortar characteristic data</b>	fresh density 2,07 g/cm <sup>3</sup> Air content 17,0 vol.%	
<b>Solid mortar characteristic data</b>	(when stored under water)	
	<b>Bending tensile strength</b>	<b>Compression strength</b>
2 hours	0,8 N/ mm <sup>2</sup>	1,6 N/ mm <sup>2</sup>
3 hours	0,9 N/ mm <sup>2</sup>	2,1 N/ mm <sup>2</sup>
6 hours	1,2 N/ mm <sup>2</sup>	3,3 N/ mm <sup>2</sup>
1 day	6,3 N/ mm <sup>2</sup>	23,4 N/ mm <sup>2</sup>
7 days	11,8 N/ mm <sup>2</sup>	41,5 N/ mm <sup>2</sup>
28 days	13,5 N/ mm <sup>2</sup>	45,8 N/ mm <sup>2</sup>
<b>Adhesion tensile strength</b>		
1 day >	1,2 N/mm <sup>2</sup>	
28 days >	2,5 N/mm <sup>2</sup>	
<b>Dynamic E-module 28 days</b>		26 450 N/mm <sup>2</sup>

### 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.

### Delivery form 20 kg Plastic bucket

### Storage

Storage in unopened original package, in dry rooms and according to WHG § 19. Storage temperature shouldn't be lower than +5°C and not higher than +30°C

### Storage durability 12 months with appropriate storage

### Version: 1906

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