



## Ipa Verpressmörtel Kanal

Cement-coated mineral grout with high green-stableness

## Ipa Verpressmörtel Kanal S

Accelerated, cement-coated, mineral grout with high green-stableness

### Product description

Ipa Verpressmörtel Kanal + Kanal-S consist of cement according to DIN 1164, sand, additional agents and additives and are dry mortars according to DIN 18557.

### Application areas

Ipa Verpressmörtel Kanal + Kanal-S are particularly suited for filling of hollow spaces in the remediation of waste water plants for the subsequent grouting of interstices in the sleeve- and connection zone for subsequent filling of hollow spaces between new and old pipes during the relining procedure.

### Mode of action /characteristics

Ipa Verpressmörtel Kanal + Kanal-S

- are exclusively on mineral basis
- are 1-component and
- are therefore mixed only with water
- are pumpable
- have a preset workability time
- have a good adhesion on mineral surfaces
- start rapidly to harden even at low temperatures
- have a high green-stableness
- are waterproof according to DIN 1045
- don't shrivel or shrink

### Test certificates

In preparation at the Hygiene-Institut of the Ruhr Basin, Gelsenkirchen „Certificate according to DVGW-worksheet W 347, Hygienic requests on cement-coated material in the drinking water area “

### Working instructions Preparatory works

Clean the grouting zone and insulate in case of water in- and/or exfiltrations. If necessary, provide a drainage.

### Surface

- On walkable waste water plants surface must be solid and free of anti-adhesive parts. Grouting packers- and/or lances are set with Ipanex Stopfmörtel, joints and cracks are insulated with Ipanex Stopfmörtel or Ipa Unimörtel Rapid.

- Remove deposits in non-walkable waste water collectors. Mill off domestic connections, which point into the main collector.

### Technical data

	Ipa Verpressmörtel Kanal	Ipa Verpressmörtel Kanal-S
Material basis	Cement-coated	Cement-coated
Colour	Concrete-grey	Concrete-grey
Aggregate-grain size	0,5mm	0,5 mm
Apparent density	1,32 kg/dm <sup>3</sup>	Approx. 1,3 kg/dm <sup>3</sup>
Mix liquid	Clean water	Clean water
Mix liquid demand	Approx. 19	22 weight
Workability time at 30°C	> 15 minutes	< 15 minutes
at 12°C	< 60 minutes	< 15 minutes
Material consumption	approx. 1,7 kg per liter fresh mortar	approx. 1,7 kg per litre fresh mortar
Fresh mortar characteristic data		
Gross density	2,02 g/cm <sup>3</sup>	
Air pore content	5,0 Vol.%	
Adhesive tensile strength 3 days	> 0,75 N/ mm <sup>2</sup>	
28 days	> 1,45 N/mm <sup>2</sup>	
<b>Solid mortar characteristic data (with under water storage)</b> (Already low changes of the mix liquid quantity cause an acceleration and/or delay of the setting)		
Storage	Compression strength	
	Verpressmörtel Kanal	Verpressmörtel Kanal-S
1 hour	1,6 N/ mm <sup>2</sup>	2,8 N/ mm <sup>2</sup>
3 hours	2,0 N/ mm <sup>2</sup>	3,8 N/ mm <sup>2</sup>
6 hours	3,7 N/ mm <sup>2</sup>	4,5 N/ mm <sup>2</sup>
1 day	5,8 N/ mm <sup>2</sup>	5,3 N/ mm <sup>2</sup>
2 days	24,9 N/ mm <sup>2</sup>	8,9 N/ mm <sup>2</sup>
7 days	38,5 N/ mm <sup>2</sup>	33,3 N/ mm <sup>2</sup>
28 days	40,5 N/ mm <sup>2</sup>	46,6 N/ mm <sup>2</sup>
Adhesion tensile strength		
3 days	3 days	> 0,8N/mm <sup>2</sup>
28 days	28 days	> 1,5N/mm <sup>2</sup>
Dynamic E-module 28 days	25955N/mm <sup>2</sup>	
Storage durability	6 months with appropriate storage	
Storage	Delivery in the unopened package, in dry rooms and according to § WHG 19. Storage temperature should not be lower than +5°C and not higher than +30°C	
Delivery form	20 kg plastic bucket	

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### **Treatment**

Mix homogeneously Ipa Verpressmörtel Kanal + Kanal-S with 16-22 weight% clean water with a slowly running agitator. Set up a pumpable mortar consistency. (25 kg dry mortar, 4,0 - 5,5 l water). In order to not delay unnecessarily the mixing time, pay attention to add first 4,0 l water, then admix dry mortar and add with caution more water unless the mix gets properly workable. Mixing should be carried out at the working place. Gout the fresh mortar by means of a suitable pump. Don't plasticize anymore already firm mortar with water. When using grouting packer- or canal Ipa Verpressmörtel Kanal + Kanal-S may be conveyed on longer distances. For this it is useful to dispose of different hose lengths in order to adapt the total hose length optimally to the working conditions. Within the workability time the conveying hoses must be emptied and cleaned with water. After approx. 45-60 minutes (depending on temperature) setting has sufficiently progressed to remove the packer. During and up to 24 hours after working surface- and material temperature must not be lower than +5°C. The norms about working with cement-coated construction material are applying.

### **Special instructions**

It is possible to adapt the setting times to the temperatures during the working by mixing Ipa Verpressmörtel Kanal with Ipa Verpressmörtel Kanal –S. Because of the multitude of external exposition factors the settings conditioned by the mixing must be determined directly on the lot.

### **Cleaning and disposal**

Clean working tools and containers immediately after use with plenty of water! Don't dispose mixed material residuals in the canalization.

### **Safety at work:**

During work please wear protection clothes, protection glasses and protection gloves. During the working process don't smoke, eat or drink! Avoid strong formation of dust. 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 a eye flushing bottle with a sterile solution in order to flush 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.

### **Version 1906**

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