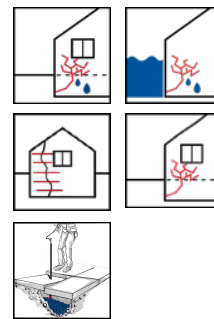


RB ResinBau InjectGrout 4035



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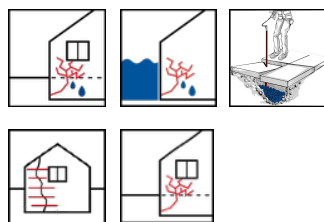
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Technical Manual

Underwater injection mortar

InjectGrout 4035 is a one-component product with unique properties. To fill gaps, scratches, cracks, voids, also those filled with water.

Areas of application



- ❖ Communication infrastructure
- ❖ General, underground, industrial and hydrotechnical construction
- ❖ Filling gaps, scratches, cracks, voids in concrete, reinforced concrete, masonry and stone structures by injection (also those voids filled with water)
- ❖ Embedding anchors in structural elements made of concrete and in rock
- ❖ Pipe stabilization
- ❖ Anchoring rebars in concrete and stone structures



Product specifications

Compressive strength [MPa] after: 1 day / 7 days / 28 days	10 / 25 / 35
Flexural strength [MPa] after: 1 day / 7 days / 28 days	2,0 / 3,7 / 5,6
Grain size [mm]	Do 0,150
Wear [kg/l]	1,45
Time to keep working properties [min.] at ambient temperature 5°C / 20°C / 25°C	40 / 30 / 20
Resistance to freezing / thawing in water at -18°C/+18°C determined by the change in compressive and bending strength	200 cycles
Shrinkage after 90 days according to PN-EN 12617-4 [mm/m]	≤ 0,9
Degree of water resistance according to PN-88/B-06250	W 12
Capillary absorption (kg·m ⁻² ·h ^{-0,5})	<0,5
Pull-off strength from the concrete substrate after 28 days using the "pull-off" method [MPa]	1,5
Chloride ion content [%]	≤ 0,05
Reaction to fire	klasa A1

Properties

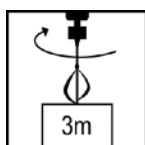
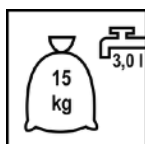
- ❖ Increased resistance to washing
- ❖ During the injection, it displaces water from the voids
- ❖ Excellent pumpability
- ❖ Limited shrinkage
- ❖ Limits the penetration of chlorides (PN-EN 13529)
- ❖ Liquid texture
- ❖ For pressure and gravity injection

- ❖ thickness of filling cracks, voids, crevices from 0,6 mm to 10 cm

Preparatory work

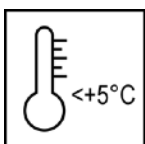
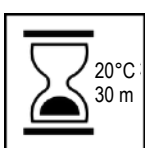
- ❖ Dry cracks can be rinsed with water before injection to improve patency
- ❖ Ensure that there is no water flow in places filled with water for the duration of injection and 12 hours after injection (depending on the temperature of the injected element) - No water flow can be achieved by equalizing the pressures

Mixing



- ❖ Prepare the recommended amount of tap water or water meeting the requirements of PN-EN 206-1
- ❖ amount of tap water 3 l ($\pm 4\%$) /15 kg of dry mix ambient temperature, water temperature, dry mix temperature, type of mixer may additionally affect the change in the amount of water
- ❖ Mix for 3 minutes with a stirrer
 - ◆ Only use a slow-running agitator
 - ◆ Hand mixing with a trowel is not recommended
- ❖ Pour water into the container and, stirring, pour in the contents of the bag
- ❖ After proper preparation, the mortar is suitable for manual or mechanical application

Method of application



- ❖ Material, ambient and substrate temperature should be between +5 °C and +30 °C
- ❖ Lower temperature makes pot life longer, while higher temperature makes pot life shorter

Pot life of mortar for processing	20 min in 25 °C
	40 min in 7 °C

- ❖ Protect the fresh mortar against rapid drying and unfavorable weather conditions such as frost
- ❖ Approximate dry mix consumption: 1450 kg/m³
- ❖ 20 kg of dry mix equals approx. 14,0 l of fresh mortar

Cleaning after finished work

- ❖ Clean the pump and accessories with water
- ❖ After finishing work, rinse the pump with Hamm-pack® PI-SAVER
- ❖ When cleaning, pay attention to maintaining appropriate safety conditions

Storage Durability

- ❖ In a dry, cool and sunny place
- ❖ Shelf life 12 months from the date of production in the original, unopened packaging

Safety

- ❖ Wear safety glasses, gloves and protective clothing. Avoid contact with skin and eyes
- ❖ In case of eye contact: rinse thoroughly with clean water and consult a doctor
- ❖ In case of skin contact: rinse thoroughly with water



EN: Danger - H315 - Causes skin irritation; H317 - May cause an allergic skin reaction; H318 - Causes serious eye damage; P102 - Keep out of the reach of children; P261 - Avoid breathing dust; P280 - Wear safety glasses, face protection, protective clothing, protective gloves; P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower; P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if available and easy to remove. Continuous rinse; P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. - Contains cement. May cause respiratory irritation. Irritating to the skin. Causes serious eye damage. May cause an allergic skin reaction.