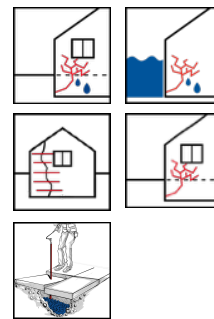


ResinBau InjectGrout 4035



ResinBau
MADE IN THE EU

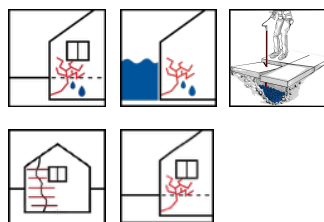
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Technical Manual

Underwater injection mortar

InjectGrout 4035 is a one-component product with exceptional properties used for filling cracks, fissures, fractures, voids, including those filled with water.

Areas of application



- ❖ Transportation infrastructure
- ❖ General, underground, industrial, and hydraulic engineering
- ❖ Filling cracks, fissures, fractures, voids in concrete, reinforced concrete, masonry, and stone structures using the injection method (including those voids filled with water)
- ❖ Anchoring bolts in concrete structural elements and in rock
- ❖ Stabilization of pipes
- ❖ Anchoring reinforcement bars 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

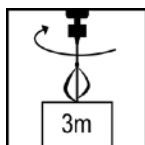
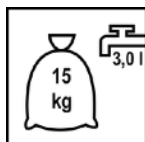
Properties

- ❖ Increased resistance to erosion
- ❖ During injection, displaces water from voids
- ❖ Excellent pumpability
- ❖ Limited shrinkage
- ❖ Reduces chloride penetration (PN-EN 13529)
- ❖ Smooth consistency
- ❖ Suitable for pressure and gravity injection
- ❖ Thickness of crack, void, and fissure filling ranges from 0.6 mm to 10 cm

Preparatory work

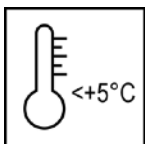
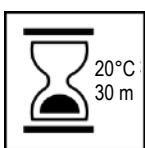
- ❖ Dry cracks can be rinsed with water before injection to improve flow
- ❖ Ensure no water flow during injection and for 12 hours after injection (depending on the temperature of the injected element) - water flow can be prevented by equalizing pressures

Mixing



- ❖ Prepare the recommended amount of tap water or water that meets PN-EN 206-1 requirements
- ❖ 3 L ($\pm 4\%$) of tap water / 15 kg of dry mix
The temperature of the environment, water, dry mix, and the type of mixer can influence the water amount needed
- ❖ Mix with a mixer for 3 minutes
 - ◆ Use only a low-speed mixer
 - ◆ Hand mixing with a trowel is not recommended
- ❖ Pour water into a container and add the contents of the bag while mixing
- ❖ After proper preparation, the grout can be applied manually or mechanically

Instruction for use



- ❖ The temperature of the material, environment, and substrate should be between +5 °C and +30 °C
- ❖ Lower temperatures prolong the grout's shelf life, while higher temperatures shorten it

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

- ❖ Protect fresh grout from sudden drying and adverse weather conditions such as frost
- ❖ Approximate consumption of dry mix: 1450 kg/m³
- ❖ 20 kg of dry mix yields about 14.0 L of fresh grout.

Cleaning after work

- ❖ Clean the pump and equipment with water.
- ❖ After finishing work, rinse the pump with Hammpack® PI-SAVER solution.
- ❖ During cleaning, proper safety measures should be observed.

Storage Shelf life

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

Safety

- ❖ Wear protective glasses, gloves, and clothing. Avoid contact with skin and eyes.
- ❖ In case of eye contact: rinse thoroughly with clean water and seek medical attention.
- ❖ In case of skin contact: rinse with plenty of 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.