

Technical Manual

One-component polyurethane injection resin

HydroGum is a one-component, low-viscosity resin used to seal wet cracks, segments between concrete slabs, sewer pipes and expansion joints

Properties

- ❖ Product needs contact with water to start reaction
- ❖ Excellent adhesion to concrete and metal
- ❖ High tensile strength
- ❖ Excellent chemical resistance
- ❖ Creates a flexible connection
- ❖ Increase volume up to 4 times



Areas of application



- ❖ Sealing cracks in concrete structures and underground structures.
- ❖ Water flow restrictor for leaks or active leaks.
- ❖ Can be used in a 2K 1:1 system with water to seal dry cracks.

Product specifications

	Resin
Viscosity (23 °C)	370± 30 mPas
Density (23 °C)	1.12 g/cm ³
Waterproofing (EN 14068)	2×10 ⁵ Pa.
Tensile strength (PN-ISO-37_2007P)	76.6 kPa
Elongation at break (PN-ISO-37_2007P)	33,3%
Compressive stress at 10% strain (PN-EN 826:2013-07)	20.2 kPa
Degree of foaming	4 times
Color	Bright yellow
Response onset time at 1:1 water contact	40 s
End of response time	2 min 30 sec

- ❖ times given when mixed with water in a weight ratio of 1:1

Optional products additional

- ❖ ResinBau CrackOn.5 - mortar that closes the front of the crack
- ❖ Hammpack® PI-Cleaner - for cleaning injection pumps
- ❖ Hammpack® injection packers

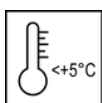
Preparatory work for injection

- ❖ This product is intended for professional users only
- ❖ Before starting the injection, it is necessary to carry out an analysis of the condition of the object
- ❖ The substrate must be stable and compact, and must not contain loose elements or substances reducing adhesion, such as fats, oils, etc.
- ❖ Properly drill the wells, depending on the work to be done
- ❖ We suggest shoeing / punching cracks or loose joint fragments and cleaning up construction dust so that the be able to surface seal it with putty (ResinBau CrackOn.5)
- ❖ Blow the holes with compressed air or water
- ❖ You need to install the packers
- ❖ Start the application

Resin preparation

- ❖ The ingredients are delivered ready for use.
The reaction time depends on the temperature of the material, the structure of the structure and the amount of water added. Higher temperatures will speed up the reaction time, while lower temperatures will slow it down. Remember! Water and moisture as well as elevated temperatures significantly accelerate reaction time
- ❖ Apply with a one-component pump or two-component pump for a 1:1 system with Water.

Method of application



- ❖ The temperature of the material, the environment and the substrate should be above 5°C
- ❖ Prepare the pump for application according to the manufacturer's recommendations
- ❖ The pressure at which the resin will be applied depends on the structure and size of the crack
- ❖ Start the application at the lowest point of the crack,
- ❖ Continue application until the resin leaks from the adjacent pacer
- ❖ Such a procedure is necessary to achieve an even distribution of material,
- ❖ Stop pumping, disconnect the hose from the packer's calamite and move on to the next one,
- ❖ Continue the procedure until the crack is completely filled.
- ❖ Processing time 30 min at 20 °C

Cleaning after finished work

- ❖ Clean the pump and equipment with Hamm-pack® PI-CLEANER every the work stoppage is longer than 15 minutes and after the application is complete.
- ❖ When cleaning, be careful to maintain proper safety conditions.
- ❖ When the cleaning agent escapes from the injection hose, rinse it with an appropriate amount of Hamm-pack® PI-SAVER maintenance product.

Storage Shelf life

- ❖ In a dry place at 10 °C - 30 °C
- ❖ Shelf life 12 months from date of manufacture in original, unopened packaging. After opening The life of the product decreases very quickly.

Security

- ❖ In a dry place at 10 °C - 30 °C
- ❖ Wear safety glasses, gloves and protective clothing. Avoid contact with skin and eyes.
- ❖ In case of contact with eyes: rinse thoroughly with clean water and consult a doctor.
- ❖ In case of skin contact: rinse abundantly with water.
- ❖ Mix the HydroGum residue with sand and dispose of the mixed material according to local regulations.

EN: Hazard - H315 - Irritates the skin; H317 - May cause an allergic skin reaction; H319 - Irritates the eyes; H332 - Harmful if inhaled; H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled; H335 - May cause respiratory irritation; H351 - Suspected of causing cancer; H373 - May cause damage to organs through prolonged or repeated exposure. - P201 - Obtain special instructions before use; P202 - Do not use before reading and understanding all safety precautions; P260 - Do not breathe dust, smoke, gas, mist, spray, vapor; P264 - Wash hands, forearms and face thoroughly after use; P271 - Use only outdoors or in a well-ventilated area; P272 - Do not take contaminated work clothes outside the workplace; P280 - Wear safety glasses, face protection, protective clothing, protective gloves; P284 - Wear respiratory protection; P302+P352 - IF ON SKIN CONTACT: Wash with plenty of soap and water; P304+P340 - IF INHALED: Remove person to fresh air and ensure breathing; P305+P351+P338 - IF INHALED TO EYES: Rinse cautiously with water for several minutes. Remove contact lenses if accessible and easy to remove. Rinse continuously; P308+P313 - IF exposed or contacted: Seek medical advice/attention; P312 - If unwell, contact a SURGEON CENTER or physician; P321 - Specific treatment (see additional first aid instructions on this label); P332+P313 - If skin irritation occurs: Seek medical advice/attention; P333+P313 - If skin irritation or rash occurs: Seek medical advice/attention; P337+P313 - If eye irritation persists: Seek medical advice/attention; P342+P311 - If respiratory symptoms develop: Contact a POISON CENTER or doctor; P362+P364 - Remove contaminated clothing and wash before reuse; P403+P233 - Store in a well-ventilated area. Keep container tightly closed; P405 - Keep container ; P501 - Dispose of contents/container at hazardous or special waste collection point in accordance with local, regional, national and/or international regulations.