

## Technical Manual

### Single-component polyurethane injection resin

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

#### Properties

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



#### Areas of application



- ❖ Sealing of 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 <sup>3</sup>
Colour	Light yellow
Response onset time when in contact with water 1:1	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 closing the crack face
- ❖ Hamm-pack® PI-Cleaner - for cleaning injection pumps
- ❖ Hamm-pack® injection packers

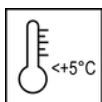
## Preparatory work for injection

- ❖ This product is intended for professional users only
- ❖ Before starting injection, an analysis of the condition of the object should be carried out
- ❖ The substrate must be stable and compact, without loose parts or substances. adhesion-reducing agents such as grease, oil, etc.
- ❖ Drill correctly, depending on the work to be carried out
- ❖ We suggest that cracks or loose joint fragments are shored / punched and cleaned of construction dust so that the surface can be sealed by filling (ResinBau CrackOn.5)
- ❖ Blow holes with compressed air or water
- ❖ Packers must be installed
- ❖ Start the application

## Resin preparation

- ❖ The ingredients are supplied 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 the reaction time.
- ❖ Apply with a one-component pump or a two-component pump in the case of a 1:1 system with a water.

## Method of application



- ❖ Material, ambient and substrate temperature 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 resin leaks from the adjacent pacer
- ❖ Such a procedure is necessary in order to achieve an even distribution of material,
- ❖ Stop pumping, disconnect the hose from the pacer calamite and move on to the next one,
- ❖ Continue the procedure until the crack fills completely.
- ❖ Processing time 30 min at 20 °C

## Cleaning after finished work

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

## Storage Sustainability

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

## Security

- ❖ In a dry place at 10 °C - 30 °C
- ❖ Wear safety goggles, 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 abundantly with water.
- ❖ Mix the HydroGum residue with sand and dispose of the mixed material according to local provisions.

**EN: Hazard** - H315 - Causes skin irritation; H317 - May cause an allergic skin reaction; H319 - Causes eye irritation; H332 - Harmful if inhaled; H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled; H335 - May cause respiratory tract 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, vapour; P264 - Wash hands, forearms and face thoroughly after use; P271 - Use only outdoors or in a well-ventilated area; P272 - Do not remove contaminated work clothes from site; P280 - Wear safety glasses, face protection, protective clothing, 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 IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if accessible and easy to remove. Rinse continuously; P308+P313 - IF exposed or contact: Get medical advice/attention; P312 - If unwell, contact a NICU or doctor; 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 place. Keep container tightly closed; P405 - Keep closed; P501 - Dispose of contents/container at hazardous or special waste collection point in accordance with local, regional, national and/or international regulations.