



## HydroBloc®PU 507 E

Multi functional injection resin, Hydrophilic and elastic

**HydroBloc®PU 507 E is a polyurethane injection resin with low viscosity, long processing time but fast reaction in the building structure. The product reacts in a dry environment to form a highly elastic, compact polyurethane plastic and, on contact with water, to a fine-celled, elastic foam.**

### Universal use and easy processing

HydroBloc®PU 507 E is suitable for all typical waterproofing injections. Cracks, joints and injection tubes, filling of holes and cavities in tunnelling and mining, stabilisation and strengthening of rubble and similar demanding jobs.

Both components are mixed 1:1 by volume, the processing is easy and comfortable. HydroBloc®PU 507 E could be processed with 1 or 2 component pumps. Acceleration is possible with HydroCat®508 or HydroCat®509, these accelerators speed up the processing time and setting times of a few minutes are possible.

HydroBloc®PU 507 E won't be attacked by concrete ingredients and doesn't contain any ingredients dangerous for concrete or reinforcement. Ground or drinking water won't get harmed by HydroBloc®PU 507 E.

### Processing

Both components are mixed 1:1 (by volume!) in a dry mixing bucket with a rotary stirrer. Hand mixing is not sufficient. The material could be applied directly after mixing.

**Important:** Always mix only as much material as can be processed in a reasonable time. Large quantities of material lead to a self-acceleration of the reaction due to the reaction heat generated - the processing time can thus be drastically reduced. High material or room temperatures also shorten the pot life. This is a typical process for all 2 component resins.

Solvents for cleaning should not contain alcohol and water (even small traces are forbidden) they cause spontaneous reaction of the B component. Usual lacquer thinners are not suitable! We recommend the special high power solvent HydroSolv®520 which is especially tuned for PU resins. HydroSolv®520 is an environmental friendly solvent with very high diluting power.

Pollution of already hardened Polyurethane resins are very difficult to remove. Adjacent building parts should be covered with plastic film or protected with Trennfix®480 a temporary protection layer. Fresh HydroBloc®PU 507 E should be removed immediately.

## Properties

Packaging	2-components ("A" + "B")
Basis	Polyurethane, made of Polyol and Polyisocyanate
Mixing ratio	1 : 1 by volume
Density mixed	1,05 gr/ml (20°C)
Viscosity (mixing 1:1)	170 +/- 50 mPa.S (20°C)
Processing time (t-gel), 20°C	approx. 240 - 290 Min
Processing time (t-gel), 10°C	approx. 350 - 500 Min
Gel time (t-gel), with water	approx. 60 - 80 Sec.*
Hardening time with water	approx. 350 - 400 Sec.*
Max. Foam ratio	approx. 150 - > 200 %*
Elongation	approx. 100 %

\*Depends on the reaction surroundings

If used as intended (injection material) HydroBloc®PU 507 E is a harmless product. The use of goggles, gloves and working clothes is recommended. Pay attention to the local rules and guidelines of working safety.

Store HydroBloc®PU 507 E dry and cold and keep away from children and unauthorised third parties. Do not store together with food and beverages. Don't drink or eat the material. The material is combustible but not inflammable.

## Storage Working safety Disposal

HydroBloc®PU 507 E is minimum 18 month storage stable if stored in a cool and dry place in unopened original containers.

Detailed information are given in the MSDS.

Already hardened material could be disposed as building rubble. Liquid product left over could be mixed together to harden the material. Liquid product and cans with adhering liquid product are special waste and must be disposed after the national law.

## Accessories

**HydroCat®509:** Super-Accelerator; short reaction times, only with 2 component pumps processable. Amount between 0,5 - 5%

**HydroSolv®520:** Security solvent. high efficient environmental friendly clean and flushing solvent, especially tuned to clean pumps and accessories polluted with epoxy and polyurethane resins.

High flash point, nor unhealthy nor toxic.

**HydroMoll®522:** Efficient conservation material for machines and tubes. Combines solving additives and special weakeners. Stays inside the machine and avoids glueing and hardening of valves and gaskets. No labelling required.

These technical information describe the present-day state of knowledge these product. They should only inform about the possibilities of application and could not release the applicator of his commitment to check the possibility to use the product for the required application. Information for processing can be found in processing instructions of our product. Information about safe handling can be found in our current safety data sheet.

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**ARCAN Waterproof**  
ARCAN GmbH Spezialbaustoffe

Kleinniedesheimer Strasse 19  
D-67240 Bobenheim-Roxheim  
Phone: +49 (0)6239 - 99 78 20  
Mail: [office@arcan.biz](mailto:office@arcan.biz)  
Web: [www.arcan.biz](http://www.arcan.biz)

passion to invent 