

## HydroBloc® Injekt 583

Injection resin, hydrophil, water miscible and swellable

A unique usable injection resin with a bunch of advantages. Low viscosity, miscible with water and after the reaction swellable in contact with water - *unique* - with active corrosion protector for the reinforcement.

**HydroBloc® Injekt 583 =  
protects reinforcement  
with active  
rust prophylaxis**

HydroBloc® Injekt 583 was developed after a ARCAN unique methode. This product is hydrophilic and completely dillutable in water. HydroBloc® Injekt 583 contains a highly reactive corrosion protector. The resin passivates the reinforcement which maybe free in cracks and joints. The reinforcement will be long term protected. Corrosion damages because of contact between steel and water in combination with oxygen will be avoided.

HydroBloc® Injekt 583 could be activated - with HydroCat® - and used as a water stop (reaction time below 3 minutes) or it could be used in cold temperatures e. g. minus degrees. In this case the accelerators will be mixed inside the components before mixing A and B component.

### many benefits



**HydroBloc® Injekt 583:  
Simple application with  
common  
machines**

- **HydroBloc® Injekt 583 is neutral to environment.**  
Both components are dilutable in water. Equipment and Injection machines could be easily cleaned with water!
- **HydroBloc® Injekt 583 is the ideal injection resin for reinjectable hoses.**  
The simple cleaning with water allows to reinject the hose several times. HydroBloc® Injekt 583 is no gel and therefore it will not shrink inside the building structure!
- **HydroBloc® Injekt 583 protects against corrosion\***  
The product does not contain any components that can damage other building materials and actively passivates the surfaces of iron and steel.
- **HydroBloc® Injekt 583 is certificated after the KTW rule (drinking water)**
- **HydroBloc® Injekt 583 is resistant**  
**Based on the special structure**, HydroBloc® Injekt 583 is resistant against chemical and biological Influences which makes it especially suitable for waste water plants and biological gas plants.

\*Tested and confirmed by MFPA Leipzig and ALGE, Gelsenkirchen



**HydroBloc® Injekt 583:**  
Unique Injection resin  
with active corrosion  
protection



From an investigation report of the **MFGA-Leipzig**: The dark parts of the steel are protected by the contact with HydroBloc® Injekt 583. Storage under water, without traces of rust.

**Processing** HydroBloc® Injekt 583 is a classical 2 component System. The two components will be mixed by volume ratio 1 : 1, this makes it easy to use even small amounts.

Both components will be added into a clean bin and with a drilling machine with applied mixer properly mixed. It is important to mix both components until the colour of the material is homogeneous.

HydroBloc® Injekt 583 could be applied with all common one and two component pumps. All parts with direct contact with the Material should be made of stainless steel. Avoid contact steel, copper and brass.

**Certificated Quality!**

**With  
HydroBloc® Injekt 583  
injected  
reinjectable hose  
Test object the MFGA  
Leipzig.  
With changeable joint  
size**



**Waterproof - 30 m water column - with swellability - with changeable joint sizes!**



**Application with  
one or two compo-  
nent pumps with  
slow or  
quick reaction**

HydroBloc®Injekt 583 could be applied with all injection machines which allow the mixing ratio 1 : 1. The reaction time is 50 - 60 minutes by 20 °C. If necessary it is possible to accelerate the material down to 3 minutes.

The viscosity is very low and the material penetrates excellent in fine structures and cracks which will be filled completely and durable.

With addition acceleration the material could be used in low temperatures down to - 10 °C.

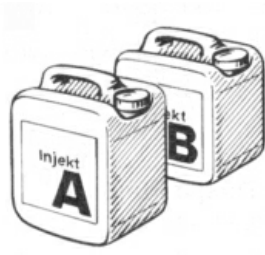
For cleaning of tools and machines water with some household dish washing material is enough.



**Important in practice**  
**Excellent penetra-  
tion and excellent  
running properties  
even on long ways**

**Because of the good penetration of HydroBloc®Injekt 583 it was possible to reach a leakage 2 meters away from the packer which was located in the working joint.**

## Product information



Packaging	: 2-Components ("A" + "B")
Features	: Hybrid resin
-Component A	: Monomere acrylate
-Component B	: Reactive polymer blend
Mixing ratio	: 1 : 1 by volume
Density (Injection mixture from A+B)	: Approx. 1,08 gr/ml
Viscosity (Injection mixture from A+B)	: 85 - 100 cStk. (mPa.S)
Swellable in water	: Approx. 70 % Volume increase
Reaction time (tGel)	: Approx. 50- 60 minutes/20 °C

### Labelling

Component A	: GHS07
Component B	: EUH208, EUH210
Transport (ADR/RID)	: Not applicable (no restrictions)
VOC - classification	: 0 (not applicable)
Toxicity class (Swiss)	: 4
ADR / RID	: Not applicable (no restrictions)

## Safety

When used as an injection agent in accordance with regulations, HydroBloc®Injekt 583 is a harmless substance. Nevertheless, it is recommended to wear protective clothing and goggles during the processing and to observe the usual rules of industrial hygiene. National regulations, e.g. those of employers' liability insurance associations, concerning the handling and processing of injection materials must also be observed.

In case of eye contact with the basic components or the injection mixture, always rinse with plenty of water for 15 minutes and then consult a specialist immediately.

The product is largely compatible with other building materials. It is non-toxic and does not contain any substances that damage or pollute the environment.

## Storage

When stored in its original closed packaging, in a cool, dry and dark place, HydroBloc®Injekt 583 has a shelf life of at least 12 months. Quality and reactivity are not affected by storage. However, component B must be protected from frost, as it becomes unusable due to frost. The components are not flammable.

HydroBloc®Injekt 583 must not be stored with food and must be kept out of the reach of children and unauthorised persons.



HydroBloc®Injekt 583 from Reaction is completely harmless and must be disposed of like household waste. Product residues can therefore be rendered harmless more easily by mixing the components. Empty containers containing liquid adhesives can be cleaned by rinsing with water and then sent for recycling (PE). Rinse water and liquid material residues are more easily rendered harmless by mixing and curing them with cement or gypsum and then disposing of them as construction rubble.

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 for safe handling with HydroBloc®Injekt 583.

## ARCAN Waterproof

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