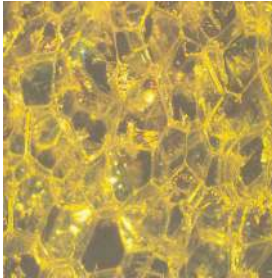


HydroBloc®510

Hydro active and fast foam resin, low viscous



HydroBloc®510 is a classic 1 component injection foam with high reactivity. Activate the 1 component resin with an accelerator (HydroCat®513 or 514). After activation, the product reacts very fast with water, this happens with strong foaming, to an elastic and inherently stable PU foam. As far as possible, the PU foam has closed cells and **does not shrink during the hardening process.**

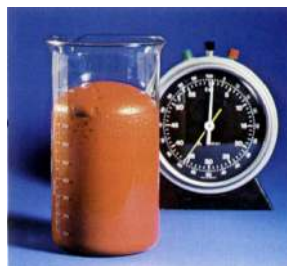
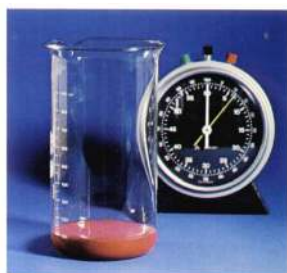
Typical applications are sealing injections, especially as fast water stop for fast and under pressure flowing water in joints, cracks, crevices and cleavages in civil engineering, tunnelling and mining as well as solidification / stabilisation of boulder and loose sand in tunnelling, mining and special civil engineering.

Processing

HydroBloc®510 will be delivered as base resin. Activate it before the use. particularly than, when a faster setting and higher expansion rates are needed. Setting time and expansion are influenced by special aligned activators - **the HydroCat® types 513 and 514**. Depending on the demanded reaction behavior, an additional amount of 1 - 3 % is sufficiently. by this variable activation, it is easy to adjust the injection resin to building requirements.

Important!

By mixing with highly reactive activators, the product is getting sensitive against every contact with water. It is almost reacting with air humidity. Accelerated HydroBloc®510 is no longer storable and must be used at once.





All usual machines and equipment for injection are able to use. There are no special requirements to materials, gaskets, etc. Regarding to the high activity of the activated resin, we recommend to flush the machine during workspaces. Clean the machine and fill it with preservative agent during longer workspaces to avoid jamming of valves. Alcohol and water are inapplicable as solvents or cleaning agents. They react spontaneous with isocyanates groups of the product. As a matter of principal, do not use mixed solvents for cleaning of machines, they contain nearly always alcohol and are not free of water.

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We recommend the highly efficient and environmentally friendly safety solvent HydroSolv®520 for cleaning of injection machines and equipment.

Properties

Delivery form	One component
Composition	Isocyanat-Präpolymere (Polyurethan)
Body structure	Clear, dark brown liquid
Odour	Weak, typical
Density	Approx. 1,10 - 1,15 g/ml
Viscosity	Approx. 200 - 260 mPa.s (at 20°C)
Foam ratio*	Approx.. 40 Litres per kg (free foamed, ARCAN-Standard-Test)

Safety



Using it according to directions as injection agent, HydroBloc-510nV is as far as possible harmless. We recommend to wear protective clothes and goggles during processing.

Regard and keep the usual business hygienic regulations. Follow national regulations about handling and processing of injection agents. Rinse your eyes well for about 15 minutes with water after eye contact with the base component or the injection mixture. Contact immediately a doctor.

HydroBloc®510 does not contain any ingredients that are harmful to the environment. The product has been tested in accordance with the German guidelines for plastics in drinking water (KfW guidelines) and meets these requirements.

Storage Disposal

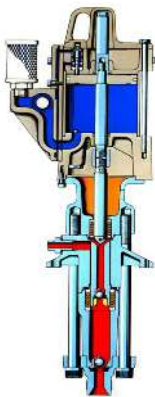
HydroBloc®510 reacts even without activator (in delivery form) with water. Already traces of humidity affect the storage life. Please close opened cask immediately after use. Stored dry and cool, HydroBloc®510 is storable for at least 12 month. The product can solidify to a ceraceous compound by contact with frost. This modification can be changed without any loss of quality by warming (e.g. water quench, not over 50°C).

The product is no fire hazard but flammable. Remind these properties while storing. Do not store it together with food, keep it away from children and unauthorised third parties.

Reacted foam resin is physiological completely harmless and can be disposed as domestic waste. Product leavings can be made innocuous by mixing with water or wet sand. Liquid leavings and casks with liquid adhesion are hazardous waste. Regard the local regulations for disposal of such waste.

Accessories **HydroCat®513**

Standard activator (accelerator) with mild odour and middle activity. For fast reactions between HydroBloc®510 and water. Additional amount between 1 - 5 % maximum.



HydroCat® 514

Reaction accelerator (activator); for faster reactions and shorter setting times. Can be mixed unproblematic into the A-component; additive amount between 0,1 - 2%.

HydroSolv®520

Highly reactive, inert rinsing solvent for cleaning of mixing head, machine and hose lines. It is environmentally friendly with a very high flashing point. Harmless, nontoxic or harmful to health, no labelling or transport restrictions.

HydroMoll®522

Efficient and low-priced care and conservation agent for pumps and hose lines. Combination of solving additives and diluents. Can stay in the machine, avoids effective the jamming of valves and gaskets. No labelling requirements and transport restrictions.

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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passion to invent 