

HydroBloc[®] Foam resin 510nV

Hydro active and fast foam resin, low viscous

HydroBloc foam resin 510 nV 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.

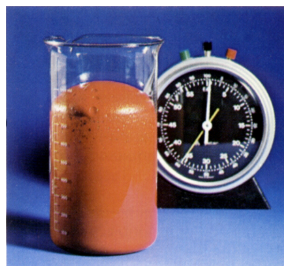
Typical applications are sealing injections, especially as fast water stop for fast and under pressure flowing water in joints, cracks, crevices and cleavages in civil engineering, tunnelling and mining as well as solidification / stabilisation of boulder and loose sand in tunnelling, mining and special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

Processing

HydroBloc foam resin 510nV 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 Hydro-Cat 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 510nV is no longer storeable 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
Smell	weak, typical
Density	Ca. 1,10 - 1,15 g/ml
Viscosity	Ca. 200 - 260 mPa.s (bei 20°C)
Foam ratio*	Ca. 40 Liter je kg (free foamed, ARCAN-Standard-Test)
Labeling	GHS08, GHS07
VOC	0 (Does not contain any volatile organic substances)
Giftklasse (Schweiz)	4 / BAGT-Nr. 614084
GGVS/GGVE	no transport restriction

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.

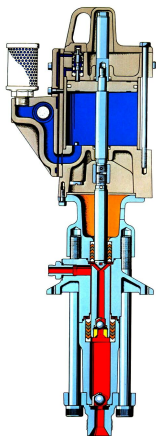
Storage Disposal

HydroBloc-foam resin 510nV 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, 510nV 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 foam resin 510nV 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 cleanig 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 ov valves and gaskets. No labelling requirements and transport restrictions.

Unsere technischen Informationen beschreiben den heutigen Stand unseres Wissens über dieses Produkt. Sie sollen nur über die Möglichkeiten seiner Anwendung informieren und können den Anwender nicht von seiner Verpflichtung auf sorgfältige eigene Prüfung des Produktes für die vorgesehenen Anwendungen entbinden. Informationen zur Verarbeitung des Produktes finden Sie in der Verarbeitungsanleitung; Informationen zum sicheren Umgang mit HydroBloc 620 im aktuellen Sicherheitsdatenblatt.

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