

HydroBloc®620 nV

Waterstop oam, hydroactive, with low viscosity

HydroBloc®620 nV is a really low viscosity PUR resin with medium reactivity. This 1 component product reacts directly with water or with the moisture coming from the environment. HydroBloc®620 nV expands into a fine cell structured foam which is elastic and shape stabile. The closed cell structure, which allows insulation also against high pressure flowing water, shows its high quality. The expansion pressure at the time of hardening is pressing the resin in the fine cracks and pores, supporting "actively" the sealing effect. This is called the Hydroactive potential of the resin.

Typical applications are sealing injections in tunneling, damaged concrete buildings or waterstop in rushing and under pressure flowing water.

Processing

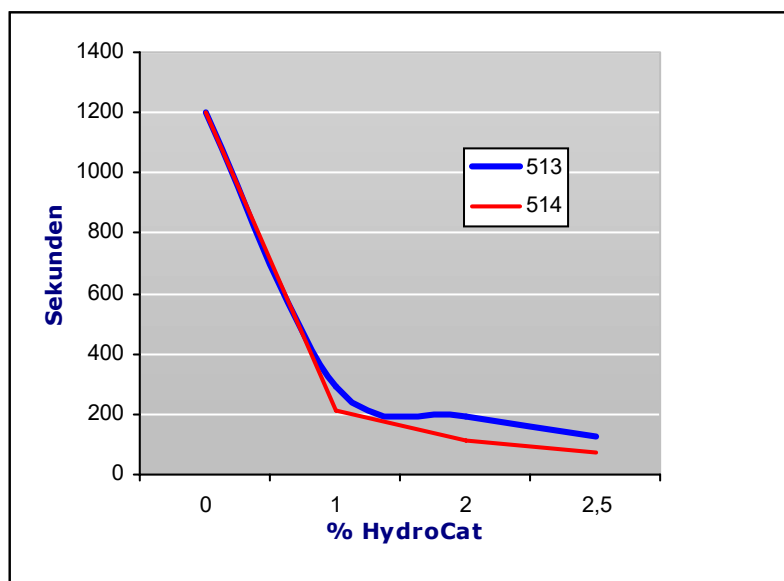
HydroBloc®620 nV is supplied as a basic resin and should be activated (accelerated) for almost all usages where a quick reaction time and a high expansion rate is necessary. Available accelerators are HydroCat 513 and HydroCat 514, they influence the setting time and the expansion rate of the foam.

The dosage is related to the required reaction feature. We recommend dosages between 1 - 5% related on the amount of basic resin. The accelerator amount influences the reaction time and the expansion rate. Due to this activation possibilities it is easy to trim the injection resin to all construction requirements.

Important:

The highly effective activators make the product very sensitive to contact with water in any form and react already with the humidity of the air. Accelerated (activated) HydroBloc®620 nV is therefore no longer storable and should be processed as soon as possible.

Setting time*
HydroBloc®620 nV
in water contact and
with additional
accelerators.
*With 3% water





There exist no special requirement for the construction material of the injection pumps.

Because of the high reactivity of the activated resin a thorough cleaning and flushing is recommended meanwhile working breaks and for longer breaks between two jobs the equipment should be filled with HydroMoll® 522 - the care and conservation material - to avoid safely the gluing of valves and gaskets.

Alcohol and water are inappropriate solve and cleaning materials, they react spontaneous with the Isocyanate groups of the product.

We recommend our security solvent HydroSolv® 520 for flushing and equipment cleaning such as hoses, pumps and mixing equipment.

We don't recommend other solvents - such as universal thinners or paint thinners - because some ingredients could damage or react with the foam resin. This leads to damages of the equipment.

Properties

Product delivered	1 Component (Basic resin)
Composition	Isocyanate prepolymer (polyurethane)
Appearance	Clear, dark brown liquid
Odour	Very weak
Density	Approx. 1,10 - 1,15 g/ml
Viscosity	Approx. 150 - 200 mPa.s (at 20°C)
Foam capacity*	Approx. 25 litres / kg (free foamed, ARCAN standard test)

Security



If used according to regulations - as injection resin - the HydroBloc®620 nV is mostly harmless. We recommend the use of the usual security devices such as protective clothes and goggles. Follow the recommendations of the government safety organisations for handling and processing of injection resins. Skin polluted with already reacted foam, can only be removed mechanical from skin surfaces.

In case of eye contact with the basic resin or the injection mixture rinse immediately with water minimum 15 minutes and contact urgently a doctor.

HydroBloc®620 nV doesn't contain any ingredients which are harmful to the environment. The material is certified after the in Germany valid guidelines for plastic in drinking water (KTR-Guidelines).

Storage Disposal

HydroBloc®620 nV reacts without activator in contact with water. Just humidity traces influence the storage stability. Open cans must be closed immediately. Stored in a cool and dry place, in unopened original cans, the self life of this product is minimum 12 months.

Component B is sensible with frost and grows stiff (wax like) if stored too cold. Through careful heating e.g. in water bath (max. 50°C) the material becomes liquid without quality loss.

The material is is not flammable but combustible. This property must be observed during storage. It must not be stored together with food and must be kept in such a way that it is not accessible to children and unauthorised persons.

Reacted foam resin is physiologically completely harmless and can be disposed of like household waste. Liquid product residues can therefore be made harmless by mixing with water or moist sand. Liquid residues and empty containers with liquid adhesions are hazardous waste and must be disposed of in accordance with local regulations for such waste.

Accessories and Additives

HydroCat®513

Standard activator (accelerator) with mild odour and medium activity. For faster reaction between HydroBloc®620 nV and water. Additive quantities between 1 - to a maximum of 5%.

HydroCat®514

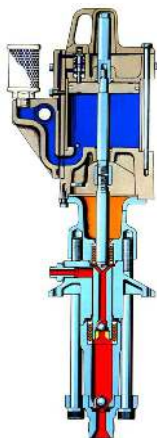
Accelerator; with high activity for shorter setting times, between HydroBloc®620 nV and water. Added into component A, amount 1 - 5%.

HydroSolv®520

Highly efficient flushing material. Used for equipment and hose cleaning. The material is an environmental friendly security solvent with high flash point. Harmless, non toxic or harmful to health, without labelling or transport restriction.

HydroMoll®522

Efficient and low-priced care and conservation material for pumps and hoses. Combination made of special weakeners and additives. Will be filled into the complete system and left until next use. Avoids active the gluing 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

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passion to invent 