

HydroFlex®621 SuperFlex

Hydroactive highly elastic 1 component resin

HydroFlex®621 SuperFlex is a really low viscosity PUR resin with low reactivity. This 1 component product reacts directly with water or with the moisture coming from the environment. HydroFlex®621 SuperFlex expands into a fine cell structured foam which is highly elastic and shape stabile. The closed cell structure, which allows insulation shows it's 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.

HydroFlex®621 SuperFlex could be used solo or as flexibility additive. HydroFlex®621 SuperFlex could be mixed in any ratio with HydroBloc®620 nV. More SuperFlex leads to more flexibility.

Processing

HydroFlex®621 SuperFlex is delivered 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. The activator specially adapted to the product - **HydroCat®514** - influences the setting time and also the expansion. The required quantity of additive therefore depends on the required reaction behaviour. This variable activation makes it very easy to adapt the injection resin to all structural requirements.

Important:

The highly effective activator makes the product very sensitive to contact with water in any form and already reacts with the moisture in the air. Activated product is therefore no longer storable and should be processed as soon as possible.

All machines and equipment commonly used in injection technology are suitable for processing, there are no special requirements for the materials, seals etc. used.

Due to the high reactivity of the activated resin, it is recommended to rinse the machines used carefully when work is interrupted and to fill them with a preservative to reliably prevent the valves from sticking.



Alcohol and water are inappropriate solvents and cleaning materials, they react spontaneous with the Isocyanate groups of the product. Therefore, mixed solvents (paint thinner, nitro thinner, etc.) should never be used for cleaning the processing equipment, as these almost always contain alcohols and are often not water-free.

For perfect cleaning of the grouting equipment we recommend our environmentally friendly safety solvent HydroSolv®520.

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 basic component
Ingredients	Isocyanate prepolymers (polyurethane)
Mixing ratio	As required 1 - 4% accelerator
Density	Approx. 1,12 g/ml
Viscosity	Approx. 650 +/- 200 mPa.S
Starting time	Approx. 35 s after water contact with 4% accelerator
Rising time	Approx. 60 - 80 s (at 20°C)
Setting time	Approx. 120 s (at 20°C)
Foam Ratio	~25 Liter free foaming ARCAN Standard Lab test

Work Safety

If used according to regulations - as injection resin - the HydroFlex®621 SuperFlex 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 immediately a doctor. HydroFlex®621 SuperFlex doesn't contain any ingredients which are harmful to the environment.

Storage Disposal

HydroFlex®621 SuperFlex 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.

HydroFlex®621 SuperFlex 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 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 material is physiological harmless and disposable as normal waste. Liquid product left over could be mixed together. Liquid left over and empty cans with liquid attachments are special waste and should be handled after the local regulations for such materials.



**Accessories
and Additives**

HydroCat®513

Accelerator; with medium activity for shorter setting times, between HydroFlex®621 SuperFlex and water
Added into component A, amount 1 - 5%

HydroCat®514

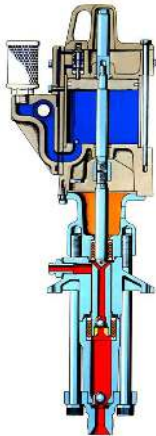
Accelerator; with high activity for shorter setting times, between HydroFlex®621 SuperFlex and water.
Added into component A, amount 1 - 5%

HydroSolv®520

Highly efficient flushing material. Used for equipment and hose cleaning.
The material is an environmental friendly security solvent with high flame 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 