



HydroSoil[®] 517

Polyurea-Bonding agent for masonry strengthening and sealing

HydroSoil[®] 517 is a reactive 1 component binding agent with very low viscosity. HydroSoil[®] 517 is used for strengthening and stabilisation of porous building material, ground and fine sand. The creation of horizontal barriers through capillary filling is another field of application. The material is ready to use.

HydroSoil[®] 517 is a real Integral-Line material, consisting of a single component with integrated hardener. After injection or after mixing with sand and soil the hardener reacts with humidity in the substrate. But without the typical foaming reaction of classic PU resins.

For classic sealing work - such as crack injection - we don't recommend this type of product. HydroSoil[®] 517 is perfectly suitable for strengthening and sealing - of porous, leached and brittle mortars or similar structures - in one step. The application is the same as normal injection work.

Properties



Packaging	One component, ready to use
Characteristic	Oily, brown liquid
Odour	Very weak, typical
Viscosity	Approx. 60 mPa.sec. (at 20°C)
Density	Approx. 1,1 gr/ml (at 20°C)

With HydroSoil[®] 517 injected structures reach a distinct higher strength in comparison with usual injection resins made of silicate or cement, even the end strength will be reached much quicker.

The product is easy to process and based on the always latent existing humidity in every substrate the hardening is quick and safe. Meanwhile the hardening process the material creates slight amounts of carbon dioxide (CO₂) which is very helpful for the penetration of the resin into capillary structures. **(Hydroactive effect!)**

HydroSoil[®] 517 is ready to use, it is not necessary to activate or mix it with another component. Therefore the application is especially easy and safe. Special injection equipment is not necessary.

We recommend to clean the used tools and machines directly after processing with HydroSolv[®] 520. We strictly recommend to avoid other solvents - especially universal thinners or paint thinners. Because some solvents contain traces of water which will react spontaneous with the resin. In this case damages of the injection pumps are unavoidable.

Important: The reacted product is physiological as far as possible harmless. HydroSoil[®] 517 is certificated after the German KTW guidelines and approved for the use in drinking water.

Safety

Contact with skin, mucosa and eye must be avoided. For processing, safety goggles, gloves and breathing protection are standard. The national regulations for polyurethane and injection resins must be kept.

In case of resin contact with eye, rinse immediately with a lot of water, minimum 15 minutes and contact a doctor.

The vapour pressure of this special Isocyanate and accelerator is very low. Nevertheless persons which are allergic in contact with Isocyanate or Amines could react to this material. Persons with a known affection of NCO groups (isocyanate) shouldn't work with PU materials, such as HydroSoil®517.

Storage Disposal

HydroSoil®517 reacts fast with water, already as delivered. Just traces of humidity in the air are enough to effect the storage stability.

Already opened cans must be closed immediately and used soon. If stored cool and dry in the original unopened can, the storage stability is minimum 6 month. The material grows stiff if stored in cold temperature, through careful warming e.g. in water bath - not > 50°C) the material recovers without quality loss.

HydroSoil®517 is not fire hazard but flammable. Keep away from food. Protect from fire or radiating heat. Store dry and cool and keep away from children or unauthorised persons.

Hardened HydroSoil®517 is physiological harmless and the disposal as normal building rubble is possible. Liquid material left over are special waste, but they could be easily disarmed by mixing with wet sand or water (leave in open cans)

For both components are safety datasheets available which contain detailed information about safety handling and should be available for all involved persons.

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 