



Hydrox®AK 1011

Hydrox® additive for special applications and the easier processing of HydroBloc®Polygel 530

Hydrox®AK 1011 - Anti corrosion

A special corrosion protection additive acrylate hydrogels, which effectively protects iron and steel against corrosion on contact with the still liquid gel components and the reacted gel. Additive Hydrox®AK 1011 is added to the standard hardener component Hydrox®549. The quantity of additive must always correspond to the quantity of Hydrox®549. The properties of the gel are not changed.

NEW: Hydrox-Integral®

Only one component, reaction starter and accelerator in one product. A powder that is simply dissolved in water (the second component of the gel). Additionally improves the strength of the hardened gel bodies and reduces the natural shrinkage when the gel dries out. Allows very easy adjustment of the reaction time via the dosage. Hydrox-Integral® makes the user's work easier, helps to avoid mistakes.

NEW: Hydrox-Integral® PM

Hydrox-Integral® modified with a water-soluble, reactive polymer compound. On curing, the product reacts together with HydroBloc®Polygel 530 to form a polymer blend with excellent adhesive strength, high internal strength and elasticity. The typical shrinkage of gels is significantly reduced.

Hydrox-Integral® makes the user's work easier, helps to avoid errors and allows targeted polymer modification "on site".

NEW: HydroBloc-SiliBlend® 535

Reactive, mineral compound. As the second component (mixed with water) SiliBlend® reacts together with HydroBloc Polygel® without any further additives to form a mineral gel, a stone-like, still somewhat elastic body. Ideal for injections against high water pressure, for filling cavities, for backfill injections under ground slabs and everywhere else where pre-injections with cement are common.



HydroBloc®Polyblend 540

A reactive polymer latex compatible with Polygel®. Used together with Polygel® and instead of water as a second component. PolyblendI® crosslinks together with the gel component during polymerisation (curing) of the gel to form a polymer blend.

Advantages: High mechanical strength, excellent adhesion, reduced shrinkage during drying:



Picture: STRABAG / AGN

Gotthart Base Tunnel, Amsteg section, November 2006: The counter-driving to the cutting wheel of the tunnel boring machine "GABI-2", through the rock sealed with HydroBloc®Polygel 530

The TBM was buried by falling rock. For the counter-driving it was consolidated and sealed by injection. For sealing, over 130 tonnes of HydroBloc®Polygel 530, with Hydrox®AK 1011 as hardener, had to be injected. Hydrox®AK 1011 made it possible to work with the existing equipment for cement injections without causing corrosion damage to the pumps and mixers made of mild steel. Despite the large quantities of material and about 4 weeks of shift operation around the clock ! A nice reference for our innovative new product.

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 