

Betolin[®] HT

Liquid Hardener for Silicate Binders

Chemical description

Betolin HT is an organic hardener susceptible to acids and alkalis. It can be applied in silicate emulsion coatings.

Mode of action

Betolin HT is saponified by alkali silicates. Due to the thus induced alkali consumption the ratio $\text{SiO}_2 : \text{M}_2\text{O}$ of the binder is raised resulting in a strong viscosity increase up to solidification and hardening of the binder. The curing time depends on the added amount of Betolin HT and the system temperature.

Specification (average values)

Density (20°C):	approx. 1,16 g/cm ³	042 *)
pH value (10 %):	approx. 7,0	008 *)
Viscosity (20°C):	approx. 20 mPas	053 *)
Boiling point:	approx. 260 ° C	
Solubility in water:	approx. 80 g/l	
Appearance:	colourless liquid	
Odour:	fruity	

*) Internal method code – description available on request

Properties

- Accelerates the setting and curing process of silicate emulsion coatings,
- Betolin HT is decomposed (saponified) by acids and alkalis,
- Non toxic,
- Biodegradable and ecocompatible,
- Does not contribute to VOC values.

Application

Betolin HT is mixed with silicate paints and plasters as a hardener immediately before application. The usually added quantities are between ca. 5 and 10 weight % relative to the silicate binder content. (Temperature dependent / preliminary tests necessary.)

Storage

Storage stability in closed original containers at least 12 months.

Labelling / Safety

Not classified as dangerous according to EC Guidelines and German Ordinance on Hazardous Materials (GefStoffV).

Packaging

30 kg can
220 kg drum
container

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