Betolin® Li 20

Inorganic binder / adhesive for industrial applications

Chemical description

Betolin Li 20 is a water-based, silicate containing binder based on lithium salts.

Mode of action

Betolin Li 20 is a reactive binder based on silicate. It is converted by carbon dioxide and polyvalent metal compounds into water insoluble, heat and acid resistant products.

Betolin Li 20 consolidates porous mineral substrates or stones through silification.

Specification (average values)

Solids content:	approx. 22,0%	007 *)
Density (20°C):	approx. 1,18 g/cm³	042 *)
pH value:	approx. 11,4	008 *)
Viscosity (20°C):	approx. <20 mPas	053 *)
Solubility:	can be diluted with water in any ratio	
Appearance:	opaque liquid	
Odour:	neutral	

*) *Internal method code – description available on request*

Properties

- Water based solution with low alkali content,
- good wetting properties and penetration,
- solvent free (no VOC),
- non inflammable and incombustible,
- good storage stability,
- sealing is based on formation of polysilicic acid and lithium carbonate,
- reaction products in the substrate are not water soluble,
- reaction products are acid resistant,
- no efflorescences.

Application

Betolin Li 20 is suitable for consolidation and preservation of porous natural and artificial stones, plasters and mortars.

Depending on the absorptive capacity of the surface Betolin Li 20 has to be diluted with water 1:1.

Application is possible through dipping, coating, pouring or injection.

Before an additional application wait 6-12 hours to let the material dry and cure.

Please check the suitability of the material at hidden parts of the substrate before large scale application.

Note	Application temperature (substrate, air) between 5°C and 30°C. Safety goggles must be worn in handling Betolin Li 20. After eye contact rinse opened eye for several minutes under running water and contact a doctor.
Storage	Betolin Li 20 must be protected from frost and must not be stored in aluminium or galvanized iron containers. When kept in tightly closed original containers, the shelf life is at least 6 months.
Labelling / Safety	Please see safety data sheet.
Packaging	Can Drum Container

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