

Betolin[®] P 35

Binder for silicate paints and plasters

Chemical description

Betolin P 35 is a highly stabilized, highly concentrated and odourless solution of potassium silicate.

Mode of action

Betolin P 35 is a highly efficient binder for the production of storage stable liquid one component emulsion silicate paints and plasters. Betolin P 35 silicifies mineral substrates to form a durable structure.

Specification (average values)

Solids content:	approx. 29,0 %	007 *)
Organic ingredients:	approx. 1,4 %	calcul. value
Density (20°C):	approx. 1,25 g/cm ³	042 *)
pH value:	approx. 11,0	008 *)
Viscosity (20°C):	approx. 25 mPas	053 *)

*) Internal method code – description available on request

Properties

- Silicification and the cohesive bond ensure excellent adhesion to mineral substrates,
- The water vapour permeability of coatings is fully retained,
- There is no blistering or flaking of the coats of paints and textured finishes that have been applied,
- Since the thermal expansion is the same as that of the substrate, the likelihood of cracking is reduced,
- The textured finishes and paints are durable, even on exposure to climatic extremes,
- The textured finishes are resistant to outdoor exposure, dirt repellent, and self-cleaning and lightfast; and they inhibit corrosion,
- If the fillers have been appropriately selected, the coatings are resistant to acids and industrial gases,
- The textured finishes and paints have a natural appearance,
- The paints and textured finishes are flame retardant,
- Well formulated paints and finishes have a long shelf life,
- The product is very versatile and compatible with various substrates,
- Passivates reactive multivalent metal ions,
- Is very economic because of its great stability and durability,
- The inclusion of Betolin Quart products in the formulations enhances the wettability and the adhesion and reduces efflorescence and staining.

Application

Betolin P 35 is an eminently suitable binder for emulsion silicate paints and plasters (cf. DIN 18 363, paras. 2.4.1 and 3.2). Its high binder concentration recommends its use in textured finishes. More water is required in formulations for paints.

Note

Drums containing Betolin P 35 must always be kept tightly closed. Adjoining areas of glass, cement, ceramic, metal, and natural stone must be well masked before the paints are applied. Splashes and spills must be immediately removed with water. The tools must be cleaned with water immediately after use. Some sequestrant and caustic soda may be added to the water in order to improve clean-up.

Storage

Betolin P 35 must be protected from frost during storage. Its shelf life in tightly closed drums is at least twelve months, and it can also be kept for twelve months in storage tanks.

Labelling / Safety

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

Packaging

30 kg can
250 kg drum / 270 kg drum
Container
Road tanker

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