Betol® KS 402 A

Aqueous Dispersion of Colloidal Silica

Chemical description

Betol KS 402 A is a stable homogeneous colloidal dispersion of amorphous silica in water. It is an opalescent to slightly turbid liquid with low viscosity susceptible to frost. Due to ammoniacal stabilisation the primary particles show anionic surface charge.

Mode of action

Other than silica gel, precipitated silica or common waterglass Betol KS 402 A is an easily applicable colloidal silica dispersion that will form after application a solid water insoluble amorphous silica gel.

Specification (average values)

Dry content:	approx. 40,0 %	007 *)
Density (20°C):	approx. 1,29 g/cm³	042 *)
pH:	approx. 9,2	008 *)
Viscosity (20°C):	approx. 40 mPas	053 *)
Solubility:	miscible with water in any ratio	

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

Application

- Binder for ceramics,
- sealing and solidifying agent in the construction area,
- liquefier for gypsum slurries,
- antislip finish for textile and paper / board products,
- flocculation agent,
- foundry and steel production,
- production of catalysts and processed chemicals,
- surface cleaning and preserving products,
- paints, varnishes and plastics,
- refractories and acid proof materials.

Storage

Betol KS 402 A must be protected from frost (> + 5°C); storage stability in closed original containers at least 6 months.

Labelling / Safety

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

Packaging

On request.

10/2015