Betol® 39 T1

Inorganic binder based on special alkali silicate

Chemical description

Betol 39 T1 is an inorganic binder based on especially modified sodium silicate with special additives.

Mode of action

Due to its special composition the application of Betol 39 T1 together with inorganic or organic inert substances (e.g. fillers) results in stable high strength bonds.

Specification (average values)

Dry content:	approx. 36,0 %	007 *)
Density (20°C):	approx. 1,37 g/cm³	042 *)
pH (10 % in water):	approx. 11,3	008 *)
Viscosity (20°C):	approx. 100 mPas	053 *)
Appearance:	slightly amber opalescent liquid	
Odour:	almost none	

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

Properties

- Stable, alkaline liquid,
- Excellent wetting properties, especially on inorganic and mineral substances,
- Can be cured by organic or inorganic hardeners, acidic gases (e.g. CO_2) or higher temperatures,
- Heat and acid resistant bonds are obtained,
- In combination with special hardeners water stable bonds can be achieved.

Application

Betol 39 T1 is applied as binder for the production of insulating, fire protecting and other construction panels. Furthermore it is used as a binder for mineral dusts and for agglomerating or briquetting of coal, mineral or metal dusts. Betol 39 T1 is also used as binder in acid or fire proof cements and as setting accelerator for shotcrete mortars.

Note

Betol 39 T1 is only classified as slightly hazardous to water (according to German water hazard class regulations). During application or by heat impact no hazardous gases or decomposition products are evolved.

Storage

Betol 39 T1 must not be stored in aluminium or galvanized containers. Protect from frost. The containers must be kept tightly closed. Storage stability at least 12 months.

Labelling / Safety

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

Packaging

can
drum
Container
Road tanker

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