

Betol[®] 50 T1

Inorganic binder based on special alkali silicate

Chemical description

Betol 50 T1 is an inorganic binder based on modified sodium silicate with special additives.

Mode of action

Due to its special composition the application of Betol 50 T1 together with inorganic or organic inert substances (e.g. fillers) results in stable high strength bonds.

Specification (average values)

Dry content:	approx. 44,0 %	007 *)
Density (20°C):	approx. 1,52 g/cm ³	042 *)
pH:	approx. 12,5	008 *)
Viscosity (20°C):	approx. 700 mPas	053 *)
Appearance:	slightly amber opalescent liquid	
Odour:	faint soapy odour	

*) Internal method code – description available on request

Properties

- Stable, alkaline liquid,
- Enhanced wetting properties, especially on inorganic and mineral substances.
- Can be cured by organic or inorganic hardeners, acidic gases (e.g. CO₂) or higher temperatures.
- Heat and acid resistant bonds.
- In combination with special hardeners water stable bonds can be achieved.

Application

Betol 50 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 50 T1 is also used as binder in acid or fire proof cements.

Note

Betol 50 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 50 T1 must not be stored in aluminium or galvanized containers. Protect from frost. The containers must be kept tightly closed. Storage stability at least 6 months.

Labelling / Safety

Please see safety data sheet

Packaging

30 kg can
300 kg drum
Container
Road tanker

10/2015