

Ligasil[®] 39

Inorganic binder based on special alkali silicate

Chemical description

Ligasil 39 is an inorganic binder based on especially modified sodium silicate without any volatile organic additives.

Mode of action

Due to its special composition the application of Ligasil 39 together with inorganic inert substances results in stable high strength bonds. In combination with suitable hardeners water permeable soils can be stabilised or sealed.

Specification (average values)

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

*) Internal method code – description available on request

Properties

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

Application

- base material for the preparation of hard and soft gels for chemical grouting / soil solidification,
- setting accelerator in shotcrete.

Note

Ligasil 39 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

Ligasil 39 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).

Alkaline liquid. Classification according to toxicological analysis.

For further information please consult our safety data sheet.

Packaging

10/2015

Container
Road tanker