

# Betol<sup>®</sup> 39 T

## Inorganic binder based on special alkali silicate

### Chemical description

Betol 39 T 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 Betol 39 T 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/cm <sup>3</sup>	042 *)
pH (10 % in water):	approx. 11,3	008 *)
Viscosity (20°C):	approx. 100 mPas	053 *)
Appearance:	clear to slightly opalescent liquid	
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. CO<sub>2</sub>) or higher temperatures,
- Heat and acid resistant bonds are obtained,
- In combination with special hardeners water stable bonds can be achieved.

### Application

Betol 39 T 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 T is also used as binder in acid or fire proof cements and as setting accelerator for shotcrete mortars.

### Note

Betol 39 T 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 T 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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