

Stabilil[®] 40

Powdered hardener for soluble silicate based binders

Chemical description

Stabilil 40 is an inorganic hardener in powder form. It is based on modified aluminosilicate, developed to be used in low ratio (SiO₂ to Alkalioxide) soluble silicate based systems.

Mode of action

Through thermal and alkaline activation, Stabilil 40 performs the curing of alkali silicate based systems. Due to an increasing ratio and due to the integration of released polyvalent metal ions into the generated silicate network, temperature resistant and water-insoluble compounds can be achieved.

Specification (average values)

Powder Density:	approx. 0,5 g/cm ³	059*)
Solubility in H ₂ O:	insoluble	
Appearance:	grey powder, fine	

*) Internal method code – description available on request

Properties

- Good hardening properties in combination with low ratio soluble silicates,
- resulting compounds with high water and water vapour resistance (after thermal activation),
- inorganic product,
- eco-compatible,
- VOC-free,
- non-toxic.

Application

Stabilil 40 is used as a hardener for low ratio soluble silicate based formulations, e.g. for the production of insulation boards, moulded parts, bricks, artificial stones, fire protection systems, ...
Especially mixtures of 2 to 5 parts alkali silicate in combination with 1 part of Stabilil 40 show advantageous properties.

Note

The hardening requires at least 80°C and will preferably take place at 200°C for approx. 10-20 minutes. Thereby, maximum water resistance can be achieved.

Storage

Stabilil 40 has to be protected from humidity. Storage stability in closed receptacles under dry conditions at least 6 months. Open receptacles should be used up soon.

Labelling / Safety

Not subject to classification according to EC Guidelines and German Ordinance on Hazardous Materials (GefStoffV).

Packaging

15 kg bags

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