Geosil® 14517

Alkaline activator based on potassium silicate

Chemical description

Geosil 14517 is an aqueous solution of modified potassium silicate.

Mode of action

Due to its special composition Geosil 14517 results in stable high strength bonds, especially in combination with alkaline activatable fillers.

Specification (average values)

Dry content:	approx. 45,0 %	007 *)
Density (20°C):	approx. 1,5 g/cm³	042 *)
pH (20°C):	approx. 12,5	008 *)
Viscosity (20°C):	approx. 20 mPas	053 *)
Solubility:	miscible with water in any ratio	
Appearance:	clear to slightly opalescent liquid	
Odour:	none	

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

Properties

- High reactivity,
- high activation power,
- good storage stability,
- good wetting properties, especially on inorganic and mineral substances,
- heat and acid resistant bonds,
- may create robust and water stable substrates in combination with alkaline activatable fillers.

Application

Geosil 14517 is applied as an alkaline activator for reactive fillers. Thereby, it combines high activation power with strong binding properties which represents an excellent characteristic profile in order to build up geopolymers.

Note

Geosil 14517 is only classified as slightly hazardous to water. During application or by heat impact no hazardous gases or decomposition products are evolved.

Storage

Geosil 14517 must not be stored in aluminium, glass, ceramic or galvanized containers.
Protect from frost. The containers must be kept tightly closed. Storage stability at least 12 months.

Labelling / Safety

Please see safety data sheet.

Packaging	On request.

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