

MINOVA

GEOFLEX KS

SILICATE INJECTION RESIN

DESCRIPTION

GEOFLEX KS is high strength silicate injection resin. Component A is a modified, special sodium silicate with additives. Component B is a modified polyisocyanate.

APPLICATION AND USE

- > Grouting coal and adjacent strata
- > Stabilising fragile zones
- > Grouting of injection bolts
- > Renovation of old drifts
- > Other specialised applications

ADVANTAGES

- > High compressive strength
- > Significant strength development in a short time
- > Insensitivity to water
- > High adhesion to various rocks
- > Good rock mass penetration ability
- > Low maximum curing temperature
- > Good hydro-insulation and gas-insulation properties
- > Does not increase the endogenous fire risk
- > Anti-electrostatic properties
- > Low flammability

TECHNICAL DATA

The data below are laboratory data. They may vary in practice due to ambient temperature, pressure and other factors.

MATERIAL DATA

PARAMETER	GEOFLEX KS	
	COMP. A	COMP. B
Components volume ratio	1	1
Density [g/cm ³]	~ 1.5	~ 1.2
Viscosity [mPas] at 25°C	< 500	< 500
Viscosity [mPas] at 15°C	< 800	< 800

REACTION DATA

SYSTEM PARAMETERS	GEOFLEX KS
	(A+B)
Reaction time at 25°C [s]	120 - 180
Reaction time at 15°C [s]	180 - 240
Maximum reaction temperature [°C]	<115
Compressive strength at 50% of the deformation [MPa]	>55
Flexural strength at break [MPa]	>25
Foaming factor	1
Flammability	Self-extinguish
Electrostatic properties	Dissipating

APPLICATION METHOD

System should be applied at 1:1 volumetric ratio with an appropriate pump and mixed with a static mixer.

In case of under processing temperature (below 0°C) of components, they must be adjusted to at least 10°C.

SAFETY INSTRUCTIONS AND LIMITATIONS

During application of the product, it should be used personal protective equipment for work with chemicals, as below:

- > Safety gloves
- > Goggles
- > Protective clothing

For detailed safety information please see the Geoflex KS Material Safety Data Sheet.

PACKAGING AND TRANSPORTATION

All forms of packing are approved to the danger goods regulation road, railway, domestic shipping. The components can be delivered in 20/200/1000 l units. Other packaging units are available on request. Details are shown in the offer.

STORAGE AND SHELF LIFE

The components A and B shall be stored in containers and in dry, well-ventilated areas at 10 - 30 °C. The shelf life of properly stored components is 6 months.

DISPOSAL

Follow local regulations.

ADDITIONAL DOCUMENTATION

- > MSDS of GEOFLEX KS comp. A
- > MSDS of GEOFLES KS comp. B

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