

SOFT ROCK MINING / HARD ROCK MINING

GEOFOAM

STRONGLY EXPANDING, UREA SILICATE INJECTION RESIN SYSTEM

DESCRIPTION

Geofoam is a urea silicate based resin foam for immediate stabilisation and filling. Part A is a modified silicate, and Part B is a modified isocyanate. After mixing in a volumetric ratio 1:1 the resin starts foaming up within a few seconds.



APPLICATION AND USES

Geofoam is a rapidly reacting, strongly expanding injection resin with flame protection, CFC-free;

- Cavity filling
- Consolidation of soil
- Sealing
- Securing soil on the surface
- Water sealing

ADVANTAGES

- Extremely fast reaction time
- Minimises formwork requirements
- Dual purpose system - Strata Injection and Cavity Filling
- High foam factor (low product consumption for transport and handling)
- Injection against water flow possible
- Low reaction temperature
- Allows application at lower temperatures
- The product allows injection as well as spraying techniques
- Fast reaction also against inflow of pressurised water

TECHNICAL DATA

The technical data provided in this document is as recorded under laboratory conditions. They may vary in practice due to thermal exchange between resin and strata, surface properties of the stone, lining up humidity, pressure, and other factors.

Typical Properties at 25°C	
Reaction Data	1:1 (p.b.v)
Foam Factor	15 - 30
Consumption	50 – 90 kg/m ³
Temperature of Reaction	~80 – 90°C
Density:	
Component A	1450 +/- 30 kg/m ³
Component B	1220 +/- 30kg/m ³
Colour:	
Component A	Dark Brown
Component B	Brown
Viscosity:	
Component A	270 +/- 70 mPas
Component B	140 +/- 15 mPas

APPLICATION METHOD

To ensure safe and efficient application of Geofoam, the application must be performed by or under the guidance of Minova operators who have been trained in accordance with Minova’s strata injection training program

Mixing and Planning

- Before pumping stir both components thoroughly.
- The components are pumped by a dual component pump at the volumetric ratio 1:1;
- Mix thoroughly in a static mixer unit, prior to injection into strata via a packer installed in a previously drilled borehole.

Formwork

After a short time the resin mixture begins to foam. The foam penetrates forward and is driven by the injection pressure into the rock. The foam sticks into cracks and larger gaps, holes and permeable rough soil.

SAFETY INSTRUCTIONS AND LIMITATIONS

- Recommended product temperature before use: 20-25 °C
- Application of cold product (5 – 10 °C) can lead to delay in the reaction time, to a smaller foaming factor and increased occurrence of reactions steams.

PACKAGING AND TRANSPORTATION

Geofoam Part A is supplied in 25kg steel drums.
Geofoam Part B is supplied in 19kg steel drums.

STORAGE AND SHELF LIFE

At least six months from date of delivery or twelve months from date of production when stored correctly.

STORAGE CONDITIONS

Store in a dry, well ventilated place between 10-30°C. If this time is exceeded, we recommend having the material checked by Minova for compliance with specification. Note: Frost can damage Geofoam Part A.

DISPOSAL

Do not allow product to reach sewage systems.

We recommend disposing of liquid residues and empty drums in an authorized incineration plant. Dispose of contents/container in accordance with local/regional/national regulations.

HEALTH AND SAFETY

For more information please refer to the Safety Data sheet at www.minovaglobal.com

TECHNICAL SUPPORT

We provide technical advisory service by a team of specialists in the field. The service includes on site assistance and advice on evaluation trials and laboratory work.

MANUFACTURER

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