

**SOFT ROCK MINING / HARD ROCK MINING**

**GEOFLEX®**

**TWO COMPONENT, NON FOAMING SILICATE INJECTION RESIN**

**DESCRIPTION**

Geoflex® Part A is a specialised sodium silicate with additives. Geoflex® Part B is a modified polyisocyanate. The final product is a tough, flexible material with extremely high bond strength that is resistant against acids, alkalis, brines and many solvents.



**APPLICATION AND USES**

Geoflex is a two component silicate injection resin used for:

- Grouting/Injection coal and adjacent strata
- Sealing of injection anchors
- Stabilisation of debris

**ADVANTAGES**

- Rapid reaction and strength development
- Tough and flexible material with high adhesive strength after 1 hour
- Resistant to acids, alkalis, brines and many solvents
- Low reaction temperature
- Fire Resistant material
- High Elasticity

**TECHNICAL DATA**

Geoflex is supplied as an installed system with additional technical support provided by Minova Australia.

<b>Typical Properties at 25°C</b>	
Mixing Ratio	1:1 (p.b.v)
<b>Foam Factor</b>	1
Consumption	1310kg/m <sup>3</sup>
Temperature of Reaction	~80-90°C
<b>Density:</b>	
Part A	1480+/-30kg/m <sup>3</sup>
Part B	1140+/-30kg/m <sup>3</sup>
<b>Colour:</b>	
Part A	Colourless
Part B	Brown
<b>Viscosity:</b>	
Part A	260 +/- 40 mPas
Part B	150 +/- 30 mPas

**Typical Properties at 25°C**

<b>Grade Properties</b>	<b>Standard</b>
Flow Time	90" – 150"
Setting Time	190" – 260"
<b>Adhesive Strength (3mm crack) N/mm<sup>2</sup></b>	
15 minutes	4.3
1 day	3.7
7 days	4.5
28 days	4.7
Modules of elasticity (7 days)	250

## APPLICATION METHOD

To ensure safe and efficient application of Geoflex, 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

- Both Geoflex components are pumped by a twin pump at the volumetric ration of 1:1
- Mix with each other in a static mixer unit and discharged into the strata through a borehole packer.

### Cleaning

At the completion of injection work any residual material in delivery lines is collected. For short injection stoppages the hoses may be plugged using correct fittings until next injection sequence.

## PACKAGING AND TRANSPORTATION

Geoflex Part A is supplied in 20kg drums.  
Geoflex Part B is supplied in 24kg drums.

## STORAGE AND SHELF LIFE

The shelf life is expected to be 6 months if stored correctly.

## STORAGE CONDITIONS

It is recommended that both components be stored between 10°C and 30°C in dry conditions. Note that frost may damage Component A (flocculation).

## DISPOSAL

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/apac](http://www.minovaglobal.com/apac)

## 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

Minova Australia Pty Ltd  
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An ISO 9001:2015 Quality Management  
Certificated Company



FS 603747

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