

PSGi GeogROUT 3

Properties:

PSGi GeogROUT 3 is a three-component, water-swelling hydrogel based on acrylate and methacrylate that hardens to an elastic product.

PSGi GeogROUT 3 is especially noted for its low blending viscosity that is almost equivalent to the viscosity of water. PSGi GeogROUT 3 can be applied for ground stabilization.

Technical data:

Substance data of components:

Component A1

Consistency	liquid	
Colour	reddish	
Odour	characteristic	
Spec. density (20°C)	approx. 1.14 g/cm ³	DIN EN ISO 3675
Dyn. viscosity (20°C)	approx. 6.5 mPas	DIN EN ISO 2555

Component AII

Consistency	liquid	
Colour	colourless	
Odour	amine-like	
Spec. density (20°C)	approx. 0.93 g/cm ³	DIN EN ISO 3675
Dyn. viscosity (20°C)	approx. 3.5 mPas	DIN EN ISO 2555

Component B10-, B20-, B30

Consistency	solid	
Colour	white	
Odour	odourless	
Spec. density (20°C)	approx. 2.59 g/cm ³	
Bulk density (20°C)	approx. 1.15 g/cm ³	

Component B2-3

Consistency	solid	
Colour	white	
Odour	odourless	
Spec. density (20°C)	approx. 2.59 g/cm ³	
Bulk density (20°C)	approx. 1.15 g/cm ³	

Mixture of A- and B-component:

Processing temperature	5 - 40°C	substrate temperature
Viscosity of mixture (20°C)	approx. 2.4 mPas	DIN EN ISO 2555

Reaction data at 20°C:

Pot-life		DIN EN 14022
with comp. B10	approx. 10 min	
with comp. B20	approx. 20 min	
with comp. B30	approx. 30 min	
with comp. B2-3	approx. 2 min (with 200 g of B2-3)	
	approx. 3 min (with 100 g of B2-3)	
Final curing	20 - 60 min	

Properties after curing:

Consistency	soft-elastic
Colour	white

Processing:

The All container is emptied completely into the AI container and mixed for approx. 3 minutes.

The B10, B20, B30 or B2-3 component is filled into a container equivalent to the AI component and filled with 18 litres tap water. Then it is mixed again for 3 minutes.

The A and B components prepared in this way should be processed at mixing ratio 1 : 1 (parts by volume) by means of a 2-component injection pump.

Indicated injection pumps: *BOOSTER 10 A*
 MINIBOOSTER 5U
 TPH INJECT AirPower S25-3K, VA

Safety information:

PSGi GeogROUT 3 component All and component B10-, B20, B30, B2-3 is classified as hazardous according to Regulation (EC) 1272/2008 (CLP).

It is therefore necessary, before beginning processing, to become familiar with the precautions and safety advice as indicated in the material safety data sheet.

Packaging:

Component AI	20 kg plastic canister
Component All	1 kg plastic bottle
Component B10	0.45 kg plastic can
Component B20	0.46 kg plastic can
Component B30	0.48 kg plastic can
Component B2-3	0.20 kg plastic can

Bigger packaging on request.

Storage:

Shelf life at least 12 month in original packaging when stored in dry conditions between 15-25°C, protected from heat, frost and direct sunlight.

After the expiration the use of the product is generally not recommended, unless an approval has been provided by TPH. This approval can only be obtained by the quality assurance department of TPH releasing the material after verification of main properties being within specification.

Disposal:

Small quantities of cured product residues can be disposed of as normal domestic waste. Dispose of not cured product components must be effected in accordance with the corresponding local regulations. For further information please refer to the material safety data sheets.

Test certificates:

Technical investigation ; Dipl.Ing. Dr.techn. Adrian Kainrath Ingenieurbüro für Geotechnik Judenburg 2018

Determination of basic properties of *PSGi GeogROUT 3* chemical injection product according to ÖBB construction contract B13047, part B/3.2.2 - annex 02; Materialprüfanstalt HARTL Wolkersdorf 2018

PSGi GeogROUT 3 - Examination of the leaching behaviour of an injection resin based on acrylate; MFPA Leipzig 2018



PSGi GeogROUT 3 with B2-3 - Examination of the leaching behaviour of an injection resin based on acrylate; MFPA Leipzig 2019

PSGi GeogROUT 3 - Investigation of the resistance to the action of liquids aggressive to concrete; MFPA Leipzig 2020

Laboratory tests on sand samples injected with plastic solutions; TU München 2020

Investigation of the reaction time of injection materials under high pressure; MFPA Leipzig 2020

Legal notice:

The correct and thus successful application of our products is not subject to our control. A guarantee can be issued for the quality of our products within the framework of our sales and supply conditions, however not for successful processing. All data and specifications in this specification sheet are based on the present state of the art and the right to changes and adaptations for the sake of development remains explicitly reserved. The consumption specifications designated by us can be only average empirical values, where deviations are possible on an individual basis and therefore cannot be excluded by us.

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