

RASCOflex GT220

COLLOIDAL-SILICA INJECTION MATERIAL

COLLOIDAL-SILICA INJECTION PRODUCTS

The injection products in the RASCOflex GT2 series consist of colloidal silica gel and hardener. Depending on the type, they can be injected as a 1 or 2-component system.

The very low viscosity enables good and controlled penetration of the ground. RASCOflex GT2 products can also be injected into water-saturated environments. If so the relatively high material density inhibits the dilution of the mixture with water. The ground conditions, injection speed and gel time play an important role here.

USE

RASCOflex GT220 is a two-component injection material based on the main components A-Comp and B-Comp, whereby the B-Comp is supplied as a concentrate and diluted with water on the construction site. The volumetric mixing ratio is designed at 1:1 and is therefore suitable for two-component injection. The gel time can therefore be set to a short time, thus reducing the loss of material when injecting rolling ground.

RASCOflex GT220 is used for the stabilisation, consolidation and waterproofing of sandy and indented ground. The material is usually injected via a collar pipe that is inserted into the ground. The grid and drilling depth must be defined and coordinated in advance.

The pumping speed is decisive for the injection. A commercially available single-component piston pump is required. RASCOflex GT220 binds both contaminated sand layers and those containing mineral admixtures.

FEATURES

- low viscosity
- non-combustible
- no toxic constituents
- good environmental compatibility
- waterproof
- high adhesive strength
- adjustable gel time
- two-component injection possible



Further product info



LEGAL NOTICE: The information provided on the use and application of our products in this technical data sheet is based on the present state of our knowledge. The customer shall bear sole responsibility for the proper specification, application and use of the products in line with the intended purpose, project-specific conditions and external actions. The most recent technical data sheet shall apply. The current technical data sheets are available at www.rascor.com. Our General Terms of Business shall form an integral part of this technical data sheet.

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TECHNICAL / PHYSICAL DATEN

	A-Comp	B1-Comp	B2-Comp	A:B mix
Supplied form	liquid	liquid	powder	
Material colour	colourless	colourless	white	
Container type	canister	canister	pot	
Container size	25,0 lt	5,0 lt	750 gr	
Viscosity at 20 °C (DIN EN ISO 3219)		< 40 mPas	≥ 1 mPas	-
Density at 20 °C (DIN EN ISO 2811)		1.15 kg/ltr (± 0.05)	1.26 kg/ltr (± 0.05)	-
Hazardous goods/ADR	none	none	none	
Mixing ratio				1:1 (by volume)
Curing time/starts gelling at 20 °C				approx 18 min
pH value of mix at 20 °C				9 - 11 pH
Viscosity (DIN EN ISO 3219)				< 5 mPas
Application temperature	from +6 °C to +50 °C			
Storage/shelf life	12 months in original container at +15 °C to +35 °C, in dry conditions			

The technical data is based on laboratory values from external and/or internal laboratory tests. This data is for information purposes only. The exact production values and their tolerances (e.g. temperature fluctuations ± 2 °C) are checked and approved on the basis of the test guidelines.

SUPPLY/ADDITIVES

Item no.	Product	Container	Contents
1111.2201.001	RASCOflex GT220 A-Comp	canister	25,0 lt
1111.2202.001	RASCOflex GT220 B1-Comp	canister	5,0 lt
1111.2203.001	RASCOflex GT220 B2-Comp	pot	750 gr
Grouting machines, equipment and accessories available on request			

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APPLICATION/PREPARATION

The material is applied using a 1-component injection pump. The A component is supplied ready for use. To prepare the B-mix component, start by adding 20 ltr water to the B2-Comp and mixing. The gel time can be adjusted directly on site by increasing or reducing the quantity of B2-Comp. Immediately prior to injection, add the B1-Comp to the B2-Comp and mix thoroughly. Then mix the B-mix component with the A-Comp.

NOTE: The gel time starts to run as soon as the B1-Comp and dissolved B2-Comp are mixed together.

GENERAL GUIDELINES / SAFETY NOTICE

Suitable protective clothing, gloves and goggles shall be worn. An eyewash bottle shall be kept at hand. For further details, please consult the safety data sheet.

