

RASCOflex GT221

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 GT221 is a two-component injection material consisting of a base component (Comp) and a hardener/activator (Cat). Due to the volumetric mixing ratio of up to 5:1 (Comp : Cat), a one-component injection is recommended. The reaction time is controlled by the proportion of hardener.

RASCOflex GT221 is used for the stabilisation, consolidation and waterproofing of sandy and rolling 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 GT221 binds both contaminated sand layers and those containing mineral admixtures.

FEATURES

- low viscosity allows wide permeation
- non-combustible
- no toxic constituents
- good environmental compatibility
- waterproof
- high adhesive strength
- adjustable gel time
- non-foaming



Further product info



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RASCOR

RASCOR International Ltd.
Gewerbstrasse 4
CH-8162 Steinmaur / Switzerland
Phone: +41 (0) 44 857 11 11
www.rascor.com
info@rascor.com

RASCOR Construction Chemicals GmbH
Ratsgasse 6
D-97688 Bad Kissingen / Germany
Phone: +49 (0) 971 130 27 38
www.rascor.com
badkissingen@rascor.com

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

	Comp	Cat	Mix
Supplied form	liquid	liquid	
Material colour	colourless	white	
Container type	IBC	IBC	
Container size	1000 ltr	1000 ltr	
Density at 20 °C (DIN EN ISO 2811)			1.20 - 1,30 kg/ltr
Hazardous goods/ADR	none	none	
Mixing ratio	Component and activator dissolved in water		
Curing time			adjustable
pH value of mix at 20 °C			ca. 11.3 pH
Viscosity of mix at 20 °C (DIN EN ISO 3219)			80 - 100 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
1111.2211.002	RASCOflex GT221 Comp	IBC	1000 ltr
1111.2212.002	RASCOflex GT221 Cat	barrel	200 ltr
Grouting machines, equipment and accessories available on request			

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APPLICATION/PREPARATION

The processing is normally carried out with the usual mixing and pumping equipment as used for cement injections. RASCOflex GT221 is supplied in ready-to-use condition. A concentrated activator is added for reaction, the quantity of which corresponds to the required processing times. Approximate value at 21 °C with 10% Activator equal to approx. 1 h 40 min to start of gelation / with 20% Activator approx. 17 min to start of gelation.

Two-component processing must be specified when ordering the material. This can also be used as a single component, but results in a larger material volume. With two-component processing, the mixture is mixed 1:1 in volume.

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.

