

RASCOflex GT222

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 GT222 is an injection material based on a main 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 GT222 is used to stabilise and seal sandy and layered ground as well as for injection into cracks and fissures in rock. It is used in various areas, including pre-injection in mining tunnelling, waterproofing and stabilisation in mining projects, subsequent waterproofing in existing tunnels, ground improvement in foundation areas and increasing the load-bearing capacity in sandy foundations. RASCOflex GT222 is a hydrophilic product that also adheres to wet surfaces.

The material is usually injected using 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 crucial during injection. A commercially available single-component piston pump is required.

FEATURES

- very low viscosity
- non-combustible
- no solvents, free from toxic constituents
- good environmental compatibility
- waterproof
- high adhesive strength
- adjustable gel time
- non-foaming



Further product info



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1 | 3

rascor

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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	colourless	
Container type	IBC	IBC	
Container size *	1000 ltr / 1092 kg	1000 ltr / 1025 kg	
Density at 20 °C (DIN EN ISO 2811)	1,09 kg/l (± 0,03)	1,02 kg/l (± 0,03)	1,12 kg/ltr (±0,03)
Hazardous goods/ADR	none	none	
Mixing ratio (volumetric)	Base component and in activator		100:10 - 100:20
Curing time			adjustable (from 15 min to 3)
pH value of mix at 20 °C			approx. 9,0 - 10,0 pH
Viscosity of mix at 20 °C (DIN EN ISO 3219)			< 5 mPas
Application temperature	from +5 °C to +40 °C		
Storage/shelf life	12 months in original container at +15 °C to +35 °C, in dry conditions		

*Filling is controlled by weight balance. Volume details are indicative only and vary with temperature fluctuations.

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
1111.2221.001	RASCOflex GT222 Comp	IBC	1000 ltr
1111.2221.003	RASCOflex GT222 Comp	canister	20 ltr
1111.2222.002	RASCOflex GT222 Cat	IBC	1000 ltr
1111.2222.003	RASCOflex GT222 Cat	canister	20 ltr
Grouting machines, equipment and accessories available on request			

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APPLICATION/PREPARATION

The product is normally applied with the same standard mixing and pumping equipment used for cement injections. RASCOflex GT222 is supplied ready for use. The reaction is initiated by adding a concentrated activator in the quantity corresponding to the required pot life. Guide values at 21 °C, with 10% activator: approx. 1 h 40 min to start of gelation / with 20% activator: approx. 17 min to start of gelation.

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.

