

RASCOflex GT551

POLYURETHANE INJECTION MATERIAL

POLYURETHANE INJECTION PRODUCTS

RASCOflex Polyurethane grouts can be split into three categories: standard PUR foams, ductile two-component systems and rigid elastic two-component systems. While contact with water is key in initiating the foaming action of the PUR foams – which are mainly used as a temporary water barrier – the actual polyaddition process of the two-component systems and formation of a compact, durable grout body is triggered by the contact between the two components.

The RASCOflex GT500 series features all types of PUR foam, e.g. soft, hard, fine-pored, very heavily foaming products. As the premium product in the polyurethane range, the permanently elastic, low-viscosity RASCOflex PU110X is also frequently used in preventive waterproofing for grouting injection channels and hoses. By virtue of its modular system of additives, the rigid elastic RASCOflex PU309 series acts as a multi-purpose solution for a wide range of remedial waterproofing applications. RASCOflex PU112 is the product of choice for structural (force-transmitting) waterproofing injections.

USE

RASCOflex GT551 is a polyurethane-based injection grout for 1-component application which foams heavily upon contact with water. It is used for temporarily halting water infiltration and for the pre-injection of wet or water-bearing (flowing water) block joints and cracks, strong in tunnelling and special geotechnical works.

RASCOflex GT551 is suitable wherever a waterproof barrier against hydrostatic pressure or the ductile waterproofing of wet or water-bearing (flowing water) cracks is required. The resulting partly closed-cell foam is flexible and tear-resistant.

FEATURES

- gel time/foaming start adjustable as required
- temporary sealing of voids in diaphragm walls, secant pile walls and excavation pits in general
- high foam factor
- solvent-, CFC- and chlorine-free
- chemical bonded catalyst
- noncommitted reaction
- constant, smooth foam

FEATURES

- REACh-assessed exposure scenarios: water contact, periodic inhalation, application
- REACh-tested raw materials, classed as harmless

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.



Further product info



RASCOR International Ltd.
Gewerbestrasse 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



RASCOflex GT551

POLYURETHANE INJECTION MATERIAL

TECHNICAL / PHYSICAL DATEN

	Comp	Cat	Mix
Supplied form	liquid	liquid	
Material colour	brownish	colourless	
Container type	canister	canister	
Container size *	18 ltr/8,7 ltr	1,8 ltr/0,9 ltr	
Density (DIN EN ISO 2811)	1,15 kg/ltr (± 0,03)	1,02 kg/ltr (± 0,03)	
Viscosity (DIN EN ISO 3219)	290 - 450 mPas	600 - 800 mPas	
Hazardous goods/ADR	none	none	
Mixing ratio			10:1 (by volume)
Pressure-free expansion			30- to 40-fold
Foaming start			approx. 15 sec. after water contact
Foaming end			approx. 120 sec. after foaming start
Application temperature	+5 °C to +40 °C		
Storage/shelf life	12 months in original container, +10 °C to +30 °C, in dry, dark location		

*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
1111.5511.003	RASCOflex GT551 Comp	Canister	18 ltr
1111.5511.004	RASCOflex GT551 Comp	Canister	8,7 ltr
1111.5512.005	RASCOflex GT551 Cat	Canister	1,8 ltr
1111.5512.006	RASCOflex GT551 Cat	Canister	0,9 ltr

Grouting machines, equipment and accessories available on request



RASCOflex GT551

POLYURETHANE INJECTION MATERIAL

APPLICATION/PREPARATION

Prior to injection, RASCOflex GT551 Cat is added to RASCOflex GT551 Comp and resulting contents are thoroughly mixed. RASCOflex GT551 foams upon contact with water. RASCOflex GT551 is injected via packers using a manually operated, electric or pneumatic 1-component pump (injection packers, pumps and accessories are available on request). A clean base is essential for good adhesion of grout to face of crack or void. The minimum fabric temperature shall be +5° C. Prior to grouting, remove any skin that may have formed on material surface in holding container.

GENERAL GUIDELINES / SAFETY NOTICE

Preliminary compatibility tests are strongly recommended where material is to come into contact with solvent-bearing grouting/coating polymers (polyurethane, epoxy resin etc.).

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.

