

RASCOflex PU309S+

POLYURETHANE INJECTION MATERIAL

POLYURETHANE INJECTION PRODUCTS

All RASCOflex polyurethanes in the PU309 series are solvent-free, 2-component, polyol- and isocyanate-based injection resins. All products undergo strict material tests, with particular priority given to their environmental compatibility.

The RASCOflex polyurethanes in the PU309 series excel by their high versatility and wide-ranging applications. The individual products in the series vary in terms of their standard preset gel time, foaming behaviour or thixotropic properties. To maximize flexibility on site and efficiently accommodate the constantly changing injection conditions, all standard RASCOflex PU309 products can be modified by additives, even during the injection works. It is thanks to this modularity that the RASCOflex PU309 series has evolved into a truly all-round system.

All products in the RASCOflex PU309 series are formulated so as to foam upon contact with water and thereby quickly halt the water flow. The polyurethane grout injected behind this then gels, without any contact with water, into a compact polyurethane mass. In its non-foamed state, the cured polyurethane body is rigid and tough-elastic.

USE

The key feature of RASCOflex PU309S+ is its extremely short gel time. It is thus mainly used for localized application to halt heavy water ingress.

RASCOflex PU309S+ is a polyurethane injection resin for the waterproofing and consolidation of dry to water-bearing cracks, interstices or defects in soft ground, concrete and masonry etc. Its extremely short gel time makes it ideal for waterproofing against hydrostatic pressure under the most difficult conditions. Applications include the rapid halting of water ingress into excavations, basements, cellars and hydraulic structures, even at low temperatures.

FEATURES

- extremely short gel time
- very short setting time.
- foaming of material limited to area of water contact (increase in volume of 100 - 200%)
- only available as cartridge



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 DATA

	A-Comp Base component	B-Comp Base component
Supplied form	liquid	liquid
Material colour	slightly yellowish	brown
Container type	dual-chamber cartridge	dual-chamber cartridge
Standard container size	200 ml / 202 g	200 ml / 246 g
Density (DIN EN ISO 2811)	1.01 kg/ltr (± 0.03)	1.23 kg/l (± 0.04)
Viscosity (DIN EN ISO 3219)	300 - 380 mPas	180 - 240 mPas
Hazardous goods/ADR	none	none
Mix (ready-to-use)		
Mixing ratio	1:1 (by volume)	
Gel time at 25° C	approx. 10 s	
Tack-free after (at 25° C)	approx. 45 - 60 s	
Application temperature	from +5° C to +40° C	
Storage/shelf life	12 months, in original container at +10° C to +25° C, in dry conditions	

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

APPROVALS

- EN 1504-5 System 4
- REACh-assessed exposure scenarios: water contact, periodic inhalation, application
- REACh-tested raw materials, classed as harmless

EXPERT REPORTS

- Groundwater test report, MFPA Leipzig, Germany
- Further reports on request

SUPPLY/ADDITIVES

Item no.	Product	Container	Contents
1101.6339.004	RASCOflex PU309S+ dual-chamber cartridge cartridge	2 x 200 ml	

Grouting machines, equipment and accessories available on request

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APPLICATION/PREPARATION

The A and B components are supplied in ready-to-use dual-chamber cartridges. Grouting is performed using a hand- or compressed air-operated cartridge gun. The components are separately fed to the cartridge static mixer located immediately upstream of the injection point. The mixed components react to form a solid polyurethane resin mass.

GENERAL GUIDELINES / SAFETY NOTICE

The gel and curing times are temperature-dependent. The reaction between the components is significantly influenced by the ambient, material, ground and groundwater temperatures. A minimum application temperature of +5° C should be observed for the individual components.

The components shall be properly blended into a homogeneous mix. For this purpose, a cartridge static mixer of min. 150 mm length should be used.

All RASCOflex polyurethane resins are moisture-sensitive.

CLEANING OF WORKING EQUIPMENT

As the injection product reacts with water, no parts of the working equipment shall under any circumstances be cleaned with aqueous cleaning agents. Either machine oil or, in particular cases, acetone-based rinsing or cleaning agents are recommended for cleaning all equipment and accessories that have come into contact with polyurethane. Please consult the manufacturer's instructions for the relevant pumps and equipment.

DISPOSAL

For details on how to dispose of the individual components, please consult the product safety data sheet. Cured material, in moderate quantities, may be disposed of with normal domestic waste.



Reaction video
(German)

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