



TECHNICAL DATA SHEET

RASCOflex US409

RASCOflex US409 is a fast-reacting, non-foaming, solvent-free 2-component urea-silicate resin system.

USE

RASCOflex US409 is an injection resin for the consolidation and stabilization of soft ground, gravels, sands and generally unstable ground and rock formations. The grout is likewise suitable for waterproofing and structural reinforcement applications underwater. It can also be used to stabilize sleepers and consolidate ballast in rail track construction and for fixing anchors and grouting joints.

FEATURES

- no foaming or increase in volume upon contact with water
- low viscosity
- fast-reacting, high compressive strength
- also suitable for underwater application
- high adhesion to joint/crack/void faces, even on wet base
- non-flammable

APPROVALS

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



TECHNICAL/PHYSICAL DATA

	A-Comp	B-Comp	A:B Mix
Supplied form	liquid	liquid	
Material colour	colourless	dark brown	
Container type	canister/IBC	canister/IBC	
Container size	21,5 ltr/30,8 kg 1000,0 lt/1430,0 kg 20 lt/28,6 kg	21,5 ltr/24,9 kg 1000,0 lt/1160,0 kg 20 lt/23,2 kg	
Viscosity (DIN EN ISO 3219) 25° C	120 - 300 mPas	100 - 250 mPas	
Density (DIN EN ISO 2811)	1,43 kg/ltr (± 0,04)	1,16 kg/ltr (± 0,04)	
Flash point (DIN 53213)	> 200° C	> 200° C	
Hazardous goods/ADR	none	none	
Mixing ratio			1:1 (by volume)
Curing time at 23° C			adjustable up to 15min
Application temperature	from +4° C to +40° C		
Storage/shelf life	12 months in original container, from +5° C to +30° C, in dry conditions		

APPLICATION

The A and B components are supplied in the correct, ready-to-use volumetric proportions. Grouting is performed using an injection pump. The components are separately fed, in the ratio 1:1 by volume, to a static mixer located immediately upstream of the injection point. The mixed components react to form a silicate resin.

The A component freezes at sub-zero temperatures.

GENERAL GUIDELINE

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 +15° C should be observed for the individual components.

The components shall be properly blended into a homogeneous mix. For this purpose, a static mixer of min. 300 mm length shall be used.

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.

EXPERT REPORTS

- Impact on groundwater hygiene, Institute of Environmental Hygiene and Environmental Medicine, Gelsenkirchen, Germany

SUPPLY/ADDITIVE

Item no.	Product	Container	Contents
1101.7111.001	RASCOflex US409 A-Comp	canister	21,5 ltr
1101.7112.001	RASCOflex US409 B-Comp	canister	21,5 ltr
1101.7111.002	RASCOflex US409 A-Comp	IBC	1000,0 ltr
1101.7112.002	RASCOflex US409 B-Comp	IBC	1000,0 ltr
1101.7111.003	RASCOflex US409 A-Comp	tin canister	20 ltr
1101.7112.003	RASCOflex US409 B-Comp	tin canister	20 ltr

Grouting machines, equipment and accessories available on request

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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