



## TECHNICAL DATA SHEET

# RASCOflex PU110X

RASCOflex PU110X is a low-viscosity, elastic, solvent-free 2-component polyurethane injection resin.

### USE

RASCOflex PU110X is suitable for the elastic filling/bonding of cracks, joints and voids in all areas of building construction and civil engineering. The reaction resin grout can accommodate a wide range of conditions during injection – from dry to hydrostatic pressure applications.

The reaction resin grout is also ideal for grouting injection systems, such as RASCOtec injection channels or other hose systems.

### FEATURES

- extra-low viscosity
- elastic waterproofing
- contact with water speeds up reaction
- suitable for potable water applications
- for use with either 1-component or 2-component injection pumps
- elastic filling of cracks, cavities and defects

### APPROVALS

- EN 1504-5 System 2+: ZA.1b U(D1) W(1) (1/2/3) (5/35)
- DIN V 18028
- entered in official BASt (German Federal Highway Research Institute) list of tested and approved products for concrete repair
- REACh-assessed exposure scenarios: water contact, periodic inhalation, application
- REACh-tested raw materials, classed as harmless

### TECHNICAL/PHYSICAL DATA

	A-component	B-component	A:B mix
Supplied form	liquid	liquid	
Material colour	colourless/yellowish	brownish	
Container type	canister	canister	
Container size	20 / 10 / 5 ltr	20 / 10 / 5 ltr	
Hazardous goods/ADR	none	none	
Density (DIN EN ISO 2811)	0,96 kg/ltr (± 0,03)	1,13 kg/ltr (± 0,03)	1,06 kg/ltr (± 0,03)
Viscosity (DIN EN ISO 3219)	185 - 285 mPas	60 - 90 mPas	80 - 140 mPas
Mixing ratio			1:1 (by volume)
Foam factor			1,1-1,5
Pot life (in minutes) at 20°C (depending on humidity)			30 - 45 min
Application temperature	from +4° C to +35°C		
Storage/shelf life	12 months in original container, from +5° C to +25° C, in dry conditions		



## APPLICATION

The A and B components are supplied in the correct, ready-to-use volumetric proportions. The material is applied using a 2-component injection pump (with the components fed in the ratio 1:1 by volume) or a 1-component injection pump where the grout is premixed.

## 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. Neither the prevailing ambient temperature nor the material temperature shall be less than +4° C or greater than +35° C. The components shall be properly blended into a homogeneous mix. For grouting with a 2-component injection pump, a static mixer of min. 300 mm length should be used. Do not use water or aqueous agents to clean the equipment and pumps. As all RASCOflex PU resins are moisture-sensitive, always ensure that the containers are properly sealed during storage.

## 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
- Determination of characteristic values, MFPA Leipzig, Germany
- Compatibility with polymers, MFPA Leipzig, Germany
- Investigation of impact of RASCOflex PU110X polyurethane resin on polymer inserts in concrete to DIN EN 12637-3, MFPA Leipzig, Germany
- Flexural tensile and compressive strength, University of Duisburg-Essen, Germany
- CE certificate
- Conformity certificate
- further reports on request

## SUPPLY/ADDITIVE

Item no.	Product	Container	Contents
1101.6221.001	RASCOflex PU110X A-Comp	canister	20 ltr
1101.6222.001	RASCOflex PU110X B-Comp	canister	20 ltr
1101.6221.002	RASCOflex PU110X A-Comp	canister	10 ltr
1101.6222.002	RASCOflex PU110X B-Comp	canister	10 ltr
1101.6221.003	RASCOflex PU110X A-Comp	canister	5 ltr
1101.6222.003	RASCOflex PU110X B-Comp	canister	5 ltr
1101.6223.001	RASCOflex PU110X Double chamber cartridge	cartridge	2x200ml
1101.6911.001	RASCOflex PU-AC	canister	4,8 ltr
1101.6921.001	RASCOflex PU-THIX	canister	4,9 ltr
1101.6931.001	RASCOflex PU-FO	canister	4,9 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](http://www.rascor.com). Our General Terms of Business shall form an integral part of this technical data sheet.

**Rascor International Ltd.**  
**Gewerbestr. 4**  
**CH-8162 Steinmaur / Switzerland**  
**Phone: +41 (0)44 857 11 11**  
**Fax: +41 (0)44 857 11 00**  
**[www.rascor.com](http://www.rascor.com)**