

# RASCOflex PU110X L

## POLYURETHANE INJECTION MATERIAL

### POLYURETHANE INJECTION PRODUCTS

The soft, limited-ductility RASCOflex polyurethanes are solvent-free, 2-component, polyol- and isocyanate-based injection resins. They are injected either as a 2-component system using a static mixer or in premixed form as a 1-component system. The RASCOflex polyurethanes excel by their high versatility and wide-ranging applications. To accommodate the constantly changing injection conditions on site, all limited-ductility RASCOflex polyurethanes can be immediately adapted through modification by additives. All RASCOflex products undergo strict material tests, with particular priority given to their environmental compatibility.

### USE

RASCOflex PU110X L is a low-viscosity, two-component polyurethane resin that cures without water contact to form a compact, slightly flexible PU solid, and foams upon contact with water to effectively stop active water ingress. The subsequent, non-foaming material forms the permanent sealing layer.

In contrast to PU110X, PU110X L has an extended reaction profile, making it particularly suitable for applications at elevated substrate or ambient temperatures. At temperatures of approx. 30 °C and above, the delayed reactivity provides significantly improved control during injection, as the material remains fluid longer and can penetrate deeper into cracks or voids.

PU110X L is used for remedial waterproofing as well as for preventive joint and crack sealing. Due to its very low viscosity, it is suitable for injection into very fine cracks starting from 0.1 mm.

### FEATURES

- Very low viscosity, enabling excellent penetration into fine cracks
- Extended reaction profile for improved control under warm application conditions
- Suitable for elevated substrate and ambient temperatures (e.g.  $\geq 30\text{ °C}$ )
- Elastically sealing
- Water contact accelerates the reaction and rapidly stops active water ingress
- Available as a pre-mixed single-component material or as a two-component injectable system
- Suitable for the elastic filling of cracks, voids and defects



#### RASCOR International Ltd.

Gewerbestrasse 4  
CH-8162 Steinmaur / Switzerland  
Phone: + 41 (0)44 857 11 11  
[www.rascor.com](http://www.rascor.com)  
[info@rascor.com](mailto:info@rascor.com)

#### RASCOR Construction Chemicals GmbH

Wallstrasse 16  
D-40878 Ratingen / Germany  
Phone: + 49 (0) 2102 30 76 521  
[www.rascor.com](http://www.rascor.com)  
[germany@rascor.com](mailto:germany@rascor.com)

**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.

# RASCOflex PU110X L

POLYURETHANE INJECTION MATERIAL

## TECHNICAL/PHYSICAL DATA

	A-Comp Base component	B-Comp Base component
Supplied form	liquid	liquid
Material colour	colourless / yellowish	brown
Container type	canister	canister
Standard container size	10 ltr / 9.6 kg	10 ltr / 11.4 kg
Density (DIN EN ISO 2811)	0.96 kg/ltr (± 0.03)	1.13 kg/ltr (± 0.04)
Viscosity (DIN EN ISO 3219)	185 - 285 mPas	60 - 90 mPas
Hazardous goods/ADR	none	none

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

### Mix (ready-to-use)

Mixing ratio	1:1 (by volume)
Viscosity (DIN EN ISO 3219)	80 - 140 mPas
Foam factor	1.1 - 1.5
Pot life (in minutes) at 40 °C	60 - 90 min
Application temperature	from +4 °C to +35 °C
Storage/shelf life	12 months, in original container at +5 °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.

## SUPPLY

Item no.	Product	Container	Contents
1101.6224.002	RASCOflex PU110X L A-Comp	canister	9,6 kg
1101.6225.002	RASCOflex PU110X L B-Comp	canister	11,4 kg

Other container sizes, grouting machines, equipment and accessories available on request

# RASCOflex PU110X L

POLYURETHANE INJECTION MATERIAL

## APPLICATION/PREPARATION

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 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. 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 polyurethane resins are moisture-sensitive, always ensure that the containers are properly sealed during storage.

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.

## 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.

