

RASCOflex PU118X LM

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 PU118X LM is an elastic, low-viscosity, alkaline, solvent-free, two-component polyurethane injection grout with semi-hydrophobic properties.

RASCOflex PU118X LM is used for the dynamic waterproofing / bonding of cracks, joints and voids in various areas of construction. The hydrophobic properties of RASCOflex PU118X LM make it particularly suitable for long grouting distances in damp or wet environments. The reaction and properties of RASCOflex PU118X LM can be modified as required during injection. For dry and water applications, RASCOflex PU118X LM is ideal for ground injection systems, but also for RASCOtec injection channels or other injection hose systems.

FEATURES

- very eco-friendly
- extra-low viscosity
- elastic permanent waterproofing
- stable even in contact with water
- for use with either 1-component or 2-component injection pumps

APPROVALS

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

EXPERT REPORTS

- Model environmental product declaration available



Further product info



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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-component	B-component	A:B mix
Supplied form	liquid	liquid	
Material colour	colourless/yellowish	brownish	
Container type	canister	canister	
Container size	20 ltr/19,2 kg	20 ltr/22,8 kg	
Viscosity at 23 °C (DIN EN ISO 2555)	220 - 260 mPas	50 - 130 mPas	120 - 160 mPas
Density (DIN EN ISO 2811)	0,96 kg/ltr (± 0,03)	1,14 kg/ltr (± 0,03)	approx. 1,05 kg/ltr
Flash point (DIN 53213)	> 230 °C	> 230 °C	
Hazardous goods/ADR	none	none	
Mixing ratio			1:1 (by volume)
Foam factor			1,1-1,5 (contact with water)
Pot life (in minutes) at 20°C (depending on humidity)			approx. 60 min
Application temperature	from +4 °C to +40 °C		
Storage/shelf life	12 months in original container, from +5 °C to +25 °C, in dry conditions		

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

SUPPLY/ADDITIVES

Item no.	Product	Container	Contents
1101.6231.001	RASCOflex PU118X LMA-Comp	canister	19,2 kg
1101.6232.001	RASCOflex PU118X LM B-Comp	canister	22,8 kg
1101.6911.003	RASCOflex PU-AC (accelerator)	canister	5,0 kg
1101.6921.001	RASCOflex PU-THIX (thixotropic agent)	canister	5,0 kg
1101.6931.001	RASCOflex PU-FO (foaming agent)	canister	5,0 kg

Grouting machines, equipment and accessories available on request

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APPLICATION/PREPARATION

The A and B components are supplied in the correct, ready-to-use volumetric ratios 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. The mixed components polymerize even without contact with water.

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 PU 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 RASCOflex PU-DT Cleaner V2 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 material safety data sheet. Cured material, in moderate quantities, may be disposed of with normal domestic waste.

