

RASCOflex PU516F

POLYURETHANE INJECTION MATERIAL

POLYURETHANE INJECTION PRODUCTS

Polyurethane-based injection products are the most common type of waterproofing material. Given their incredibly flexible properties, a suitable formulation can be found for any problem.

RASCOflex products are subject to strict, regular internal quality controls and are also continuously inspected by external laboratories.

USE

RASCOflex PU516F is a 1-component injection grout fast which foams upon contact with water. While lending itself to many area of use, it is mainly used for fast, temporary waterproofing. The fact that the base component RASCOflex PU516F Comp has to be activated using RASCOflex PU516 Cat results in a very reactive and fast foaming SPUR material.

RASCOflex PU516F is suitable wherever a temporary barrier against water pressure is required or voids have to be filled economically for a limited period, e.g. for ground anchors, block joints or grouting behind diaphragm, contiguous pile or sheet pile walling. RASCOflex PU516F is also used for pre-injection in order to reduce initial, heavy water ingress prior to the material-efficient installation of an effective, permanent waterproof barrier with a different RASCOflex injection product.

FEATURES

- gel time/foaming start adjustable as required
- high foam factor
- solvent-, CFC- and chlorine-free
- good adhesion to crack/void faces
- semi-flexible foam body

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

	Comp Base component	Cat Base component
Supplied form	liquid	liquid
Material colour	brown	colourless
Container type	canister	canister
Lid shape	wide-neck	spout
Standard container size*	20 l / 22,2 kg	2 l / 2 kg
Density (DIN EN ISO 2811)	1.15 kg/ltr (± 0.03)	1,02 kg/ltr (± 0.03)
Viscosity (DIN EN ISO 3219)	290 - 450 mPas	600 - 800 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	10:1 (by volume)
Foam factor (for free expansion)*	30 - 40-fold
Foaming start at 20 °C	approx. 15 s (± 5)
Foaming end at 20 °C	approx. 120 s (± 10)
Application temperature	from +5 °C to +30 °C
Storage/shelf life	12 months, in original container at +10 °C to +30 °C, in dry conditions

*Foam factor depends on water quantity. The stated values are measured with 10% water.

SUPPLY/ADDITIVES

Item no.	Product	Container	Contents
1101.6114.001	RASCOflex PU516F Comp	canister	22,2 kg
1101.6115.005	RASCOflex PU516F Cat	canister	2 kg
1101.6114.002	RASCOflex PU516F Comp	canister	11,1 kg
1101.6115.006	RASCOflex PU516F Cat	canister	1 kg
1101.6114.003	RASCOflex PU516F Comp	canister	19,9 kg
1101.6115.003	RASCOflex PU516F Cat	canister	1,9 kg
1101.6114.004	RASCOflex PU516F Comp	canister	9,7 kg
1101.6115.004	RASCOflex PU516F Cat	canister	0,89 kg

Grouting machines, equipment and accessories available on request

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APPLICATION/PREPARATION

Prior to injection, RASCOflex PU516F Cat is added to RASCOflex PU516F Comp and resulting contents are thoroughly mixed. RASCOflex PU516F foams upon contact with water. RASCOflex PU516F is injected via packers using a manually operated, electric or pneumatic 1-component pump (injection packers, pumps and accessories are available from Rascor International AG on request). A clean base is essential for good adhesion of grout to face of crack or void. The minimum fabric temperature shall be +5°C. Prior to grouting, remove any skin that may have formed on material surface in holding container.

MODIFICATIONS / ADJUSTMENTS OF THE PRODUCT PROPERTIES

To accelerate or retard the reaction time, more or less RASCOflex PU516F Cat can be added. Recommended range of mixing ratio is between 8:1 to 12:1 (Comp:Cat). Be sure to test the desired reaction time in the cup before injection.

GENERAL GUIDELINES / SAFETY NOTICE

Preliminary compatibility tests are strongly recommended where material is to come into contact with solvent-bearing grouting/coating polymers (polyurethane, epoxy resin etc.). Any regrouting to provide a permanent waterproof barrier may be carried out – without waiting times – as soon as RASCOflex PU516F has cured.

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 uncured material, please consult the product safety data sheet. Cured material, in moderate quantities, may be disposed of with normal domestic waste.



Mixing video