

RASCOflex PU512F

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 PU512F is a one-component injection material that foams upon contact with water. It is suitable for a wide range of applications but is primarily used for fast, temporary waterproofing. The supplied RASCOflex PU512F can be injected directly without the addition of catalysts.

RASCOflex PU512F 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 PU512F is also used for pre-injection in order to reduce initial, heavy water ingress prior to the material-efficient use of an effective, permanent waterproof barrier with a 2-component RASCOflex injection grout.

FEATURES

- high foam factor
- free of CFC- and phthalate plasticisers
- good adhesion to crack/void faces
- can be accelerated if required

APPROVALS

- PR-Nr. 4536831



Further product info



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.

RASCOR International Ltd.
Gewerbstrasse 4
CH-8162 Steinmaur / Switzerland
Phone: +41 (0) 44 857 11 11
www.rascor.com
info@rascor.com

RASCOR Construction Chemicals GmbH
Ratsgasse 6
DE-97688 Bad Kissingen / Germany
Phone: +49 (0) 971 130 27 38
www.rascor.com
badkissingen@rascor.com



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TECHNICAL/PHYSICAL DATA

	Comp Base component	AC (Accelerator) Additive
Supplied form	liquid	liquid
Material colour	brown	yellow
Container type	canister	canister
Standard container size	22 kg	4,8 kg
Density at 25 °C (DIN 12791-1)	1,12 kg/l (± 3%)	0,97 kg/l (± 3%)
Hazardous goods/ADR	none	none

	Component with water contact	Accelerated component with water contact (10% AC)
Viscosity at 25 °C (DIN EN ISO 3219)	140 - 500 mPa*s	35 (± 10) mPa*s
Foam factor 25 °C (free rise)	45 (± 15 s)	43
Foaming start at 25 °C	20 s (± 10)	
Foaming end at 25 °C	120 s (± 30)	
Reaction start time at 25 °C		11 s
Reaction setting time at 25 °C		40 s
Application temperature	5 °C – 40 °C	15 °C – 30 °C
Storage/shelf life	6 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
1101.6131.004	RASCOflex PU512F 1-Comp	canister	11 kg
1101.6131.005	RASCOflex PU512F 1-Comp	canister	22 kg
1101.6913.001	RASCOflex PU512F AC	canister	4,8 kg
1101.6913.002	RASCOflex PU512F AC	canister	2,4 kg

Grouting machines, equipment and accessories available on request



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APPLICATION/PREPARATION

RASCOflex PU512F is supplied ready-for-use for direct injection on site. This eliminates the need for any prior mixing with an activator. RASCOflex PU512F foams upon contact with water. It is applied via packers using a hand-operated or motor-driven, 1-component injection pump. Rinse injection pump (not with water!) immediately upon completion of works. A clean base is essential for good adhesion of grout to face of crack or void. The minimum fabric temperature shall be +5°C, the minimum material temperature +15°C. As polyurethanes react very rapidly with moisture, both the machine container and individual product containers shall be suitably protected against moisture in any form. (Particular care is required on very humid days, e.g. with fog or mist.)

MODIFICATIONS / ADJUSTMENTS OF THE PRODUCT PROPERTIES

RASCOflex PU512F can be accelerated at any time, even directly on the construction site, according to the situational needs by means of additives.

Reaction time acceleration: RASCOflex PU512F AC

For correct dosage, please consult the relevant technical data sheet!

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 PU512F 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.

