



RASCOTight Hydrophilic Channel

HYDROPHILIC SYSTEMS

HYDROPHILIC PRODUCTS

RASCOTight hydrophilic products are made from self-swelling materials and work by expanding their volume upon contact with infiltrating water. The contact pressure built up against the adjoining concrete by this expansion serves to create a watertight barrier. RASCOTight hydrophilic products can be used to waterproof construction joints and penetrations. Some products are self-adhesive while others are fixed mechanically or by (RASCObond) adhesive. The products must always be installed in such a way as to create a complete and continuous system. To prevent premature swelling of the hydrophilic strip materials, these require adequate protection against rainwater and other precipitation prior to concreting. Materials that have swollen must not be cast into the concrete.

USE

The RASCOTight Hydrophilic Channel is a combination of hydrophilic strip and injection channel. The hydrophilic strip constitutes the primary seal, while the injection channel allows the straightforward and systematic regrouting of any defects.

The RASCOTight Hydrophilic Channel is suitable for waterproofing all permanently accessible construction joints in general building and civil engineering works. The embedded swelling profile can withstand water pressures of up to 1.8 bar. For higher water pressures, injection with RASCOflex AY108 is required. The laterally positioned hydrophilic lips also compensate for minor irregularities on the joint surface.

FEATURES

- simple to install
- double waterproofing protection
- inexpensive option
- high swelling capacity

APPROVALS

- German National Test Certificate (allgemeines bauaufsichtliches Prüfzeugnis)
"waterproofing system for construction joints"

EXPERT REPORTS

- Performance test, MFPA Leipzig, Germany
- Further reports on request



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.

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RASCOtight Hydrophilic Channel

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TECHNICAL/PHYSICAL DATA

	channel	hydrophilic strip
Size width	30 mm height 20 mm	width approx. 26/52 mm height approx. 18 mm
Colour	black/yellow	black/yellow
Supplied form	solid	solid
Chemical base	polyethylene (HDPE)	vulcanized elastomers
Hazardous goods/ADR	none	none
Degree and speed of swelling (free swelling in drinking water)		swelling begins after approx. 6 h approx. 30 % after 1 day approx. 100 % after 7 days max. swelling after approx. 60 days
Max. swelling pressure		< 10 bar
Storage/shelf life	unlimited	12 months in original container, in dry conditions

SUPPLY/ADDITIVES

Item no.	Product	Container	Contents
11107.0101.001	RASCOtight Hydrophilic Channel	set	30 m
1107.0193.001	RASCOtight Hydrophilic Connectors	box	100 pcs
1190.0303.001	RASCOfix Nail Plug 6/60	box	200 pcs
1190.0302.001	RASCOfix Nail Plug 6/80	box	200 pcs
1107.9101.001	RASCObond Fixing Adhesive	box	6 pcs



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APPLICATION/PREPARATION

The RASCOtight Hydrophilic Channel is fixed to a clean, preferably level, cementitious substrate using hammer-in anchors through the predrilled fixing holes. Care must be taken to install the swelling profile continuously at joints, using RASCOtight Hydrophilic Connectors so as to form an uninterrupted system. The RASCOtight Hydrophilic Connectors ensure both the continuous connection of the swelling profile and the division into injection sectors, in case localised leakage occurs that must be remedied by injection.

For larger surface irregularities, additional fixing holes may need to be drilled. To prevent damage from spalling caused by swelling pressure, a minimum concrete cover of 10 cm must be maintained on all sides.

GENERAL GUIDELINES / SAFETY NOTICE

RASCOtight Hydrophilic Channels shall not be allowed to come into contact with water for a longer period prior to casting. Under no circumstances shall swollen RASCOtight Hydrophilic Channels be incorporated in the works.

No special safety instructions are required.