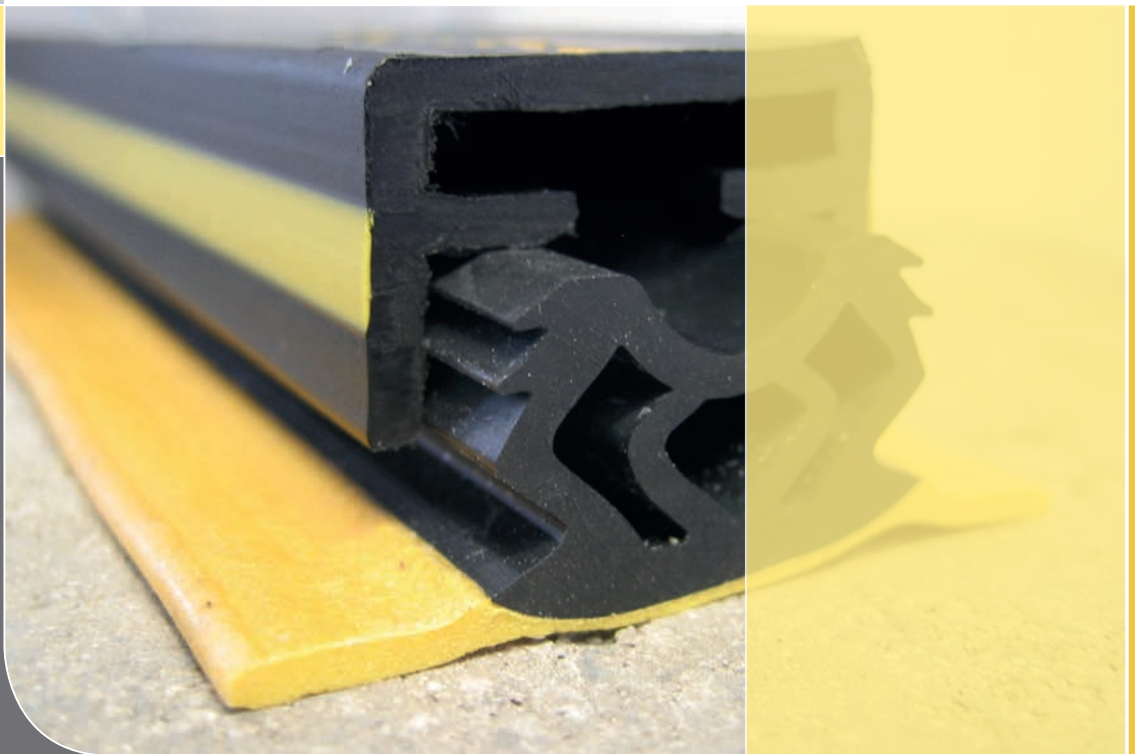


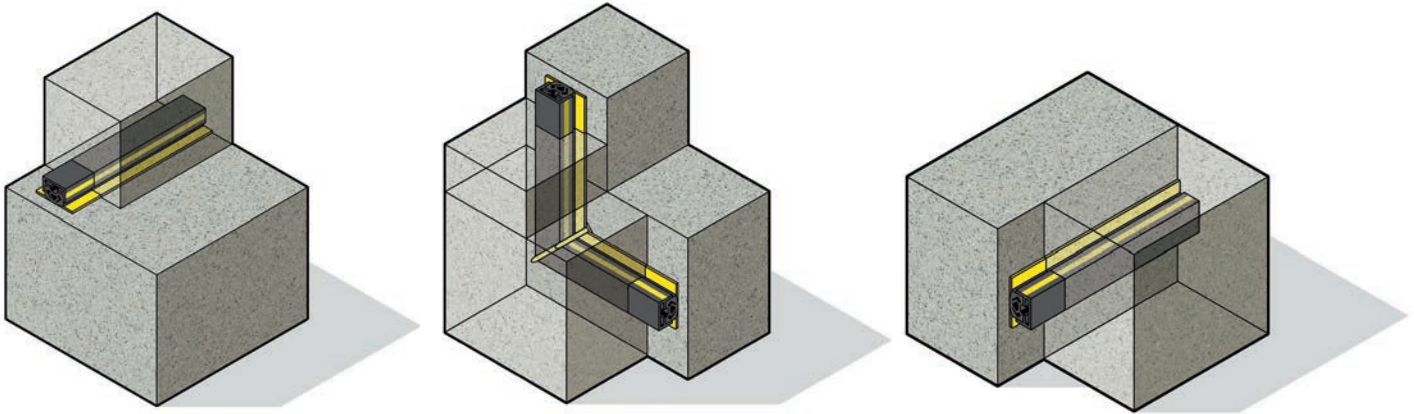
rascor®

Hydrophilic Systems
RASCOTight



Hydrophilic Systems

RASCOtight Hydrophilic Channel



The RASCOtight Hydrophilic Channel is a combination of hydrophilic and injection system.

SYSTEM DESCRIPTION

The hydrophilic strips constitute the primary joint seal. Special hydrophilic connectors are incorporated during installation to divide the channel system into individual sections. This special installation method allows localized remedial injection in case of any later leakages.

ADVANTAGES

- Joint seal already incorporated during installation
- Provision for remedial injection allows simple, controlled waterproofing of any later problem zones
- Straightforward installation using nail plugs
- Good contact with base achieved through movable, hydrophilic lateral fins, which adapt perfectly to joint surface
- Semi-flexible channel section over hydrophilic strip ensures tight, continuous fit to joint surface

BASE/INSTALLATION

The base must be as level as possible and free from loose particles. The RASCOTight Hydrophilic Channels are fixed by nail plugs through the pre-punched holes. To eliminate the risk of concrete spalling, the RASCOTight Hydrophilic Channels must be positioned so as to guarantee a minimum concrete cover of 10 cm on all sides. Individual channel lengths must be joined together using hydrophilic tee

connectors such that no gaps remain. Acute or obtuse angles are formed by mitre-cutting the RASCOTight Hydrophilic Channels as required.



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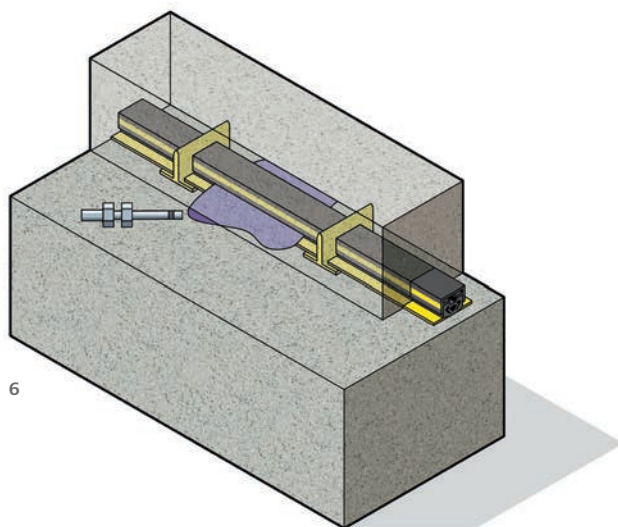
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SECONDARY WATERPROOF BARRIER BY INJECTION

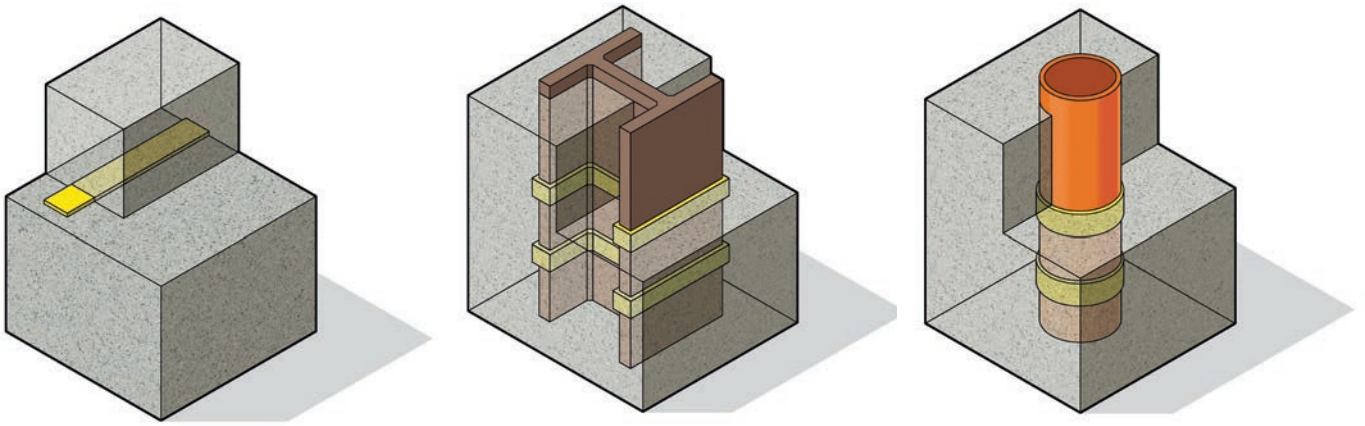
Any leakages can be eliminated by localized grouting after drilling into the channel. The injection pressure serves to push down the custom-developed rubber insert in the middle. This, in turn, pulls away the lateral fins and allows the injection grout to escape at the side, thereby sealing the leakage.

- 1 Wall/wall application at tunnel portal
- 2 Slab/wall application in building construction
- 3 Use of hydrophilic connector for end joints

- 4 Installation on uneven base
- 5 Use of hydrophilic connector for 90 degree
- 6 Diagram illustrating remedial injection

Hydrophilic Systems

RASCOtight Hydrophilic Strip



RASCOtight Hydrophilic Strips offer a cost-effective solution for sealing all types of construction joint and penetration through swelling pressure.

SYSTEM DESCRIPTION

The synthetically produced RASCOtight Hydrophilic Strips swell upon contact with infiltrating water. The waterproof barrier is achieved through the resulting swelling pressure. Given that waterproofing performance is not dependent on adhesion, a reliable barrier can be installed in joints between diverse materials.

ADVANTAGES

- Straightforward and wide-ranging installation options
- Inexpensive waterproofing solution
- Seals through swelling pressure
- Reversible swelling action
- Self-adhesive product types also available

PREPARATION/INSTALLATION

The base must be as level as possible and swept clean, with all loose particles removed. The use of self-adhesive hydrophilic strips is recommended for non-cementitious bases. With cementitious bases, RASCOTight Hydrophilic Strips can be installed with either RASCObond Fixing Adhesive or RASCOTight Hydrophilic Paste. It is in all cases essential to ensure that the RASCOTight Hydrophilic Strips

have full-surface, void-free contact with the base and that a complete and continuous system is created. Care must also be taken to provide a minimum concrete cover of 100 mm.

For certain applications, it may be advisable to install two parallel runs of RASCOTight Hydrophilic Strips. End joints are formed with a side lap of approx. 100 mm.



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TYPES AND FORMS

RASCOTight Hydrophilic Strips are available in a series of thicknesses and with various material properties. The range also includes a self-adhesive product that is particularly suitable for smooth bases, e.g. plastics and steel.

SPECIAL FEATURES

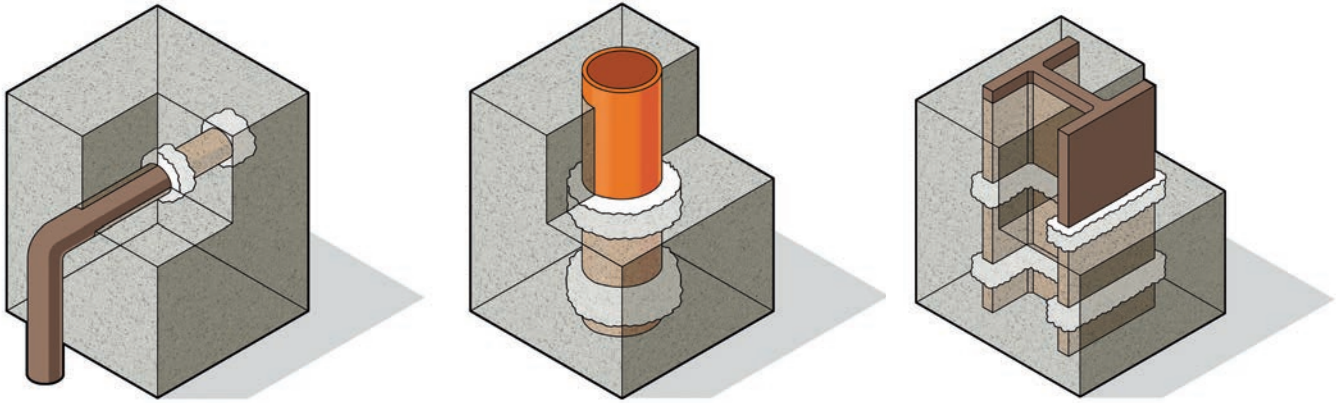
To prevent the premature swelling of RASCOTight Hydrophilic Strips, these must be protected against water prior to casting in. RASCOTight Hydrophilic Strips must not be stretched during installation as the material's resilience would subsequently cause it to debond from the base.

- 1 Self-adhesive RASCOTight Hydrophilic Strip fixed to pipe
- 2 Side lap at end joint
- 3 Use with PE pipe in core drilling

- 4 RASCOTight QVE Hydrophilic Strip around steel H-section
- 5 Use for multiple penetration

Hydrophilic Systems

RASCOfight Hydrophilic Paste



RASCOfight Hydrophilic Paste is used where the standard waterproofing products are difficult to apply.



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SYSTEM DESCRIPTION

RASCOfight Hydrophilic Paste is mainly used to waterproof penetrations with complicated or twisting geometries, in particular steel sections, small penetrating elements, cable entries, anchor heads etc. RASCOfight Hydrophilic Paste is supplied in cartridges for simple application using a standard extrusion gun.

ADVANTAGES

- Excellent adhesion to cementitious, metal, plastics etc. bases
- Universal application
- Reversible swelling
- Swells upon contact with water

1 RASCOfight Hydrophilic Paste on steel section

2 RASCOfight Hydrophilic Paste in core drilling

PREPARATION

The base must be dry and swept clean, with all loose particles removed. Once applied, RASCOfight Hydrophilic Paste must be protected against water and mechanical action until it has cured.

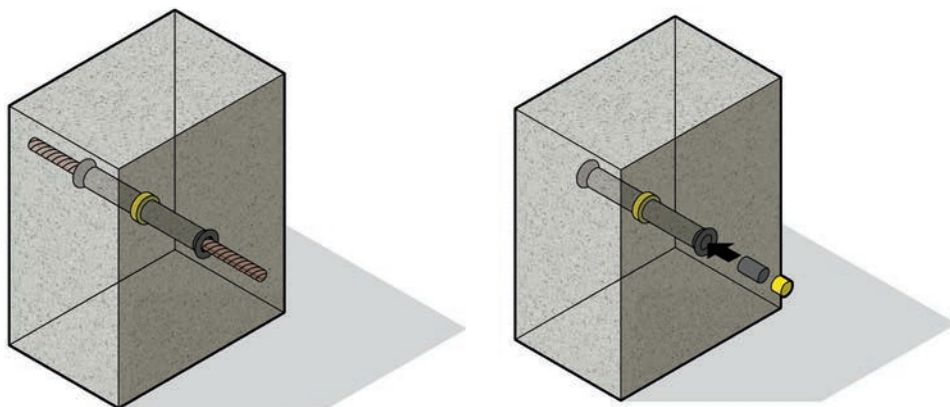
INSTALLATION

The RASCOfight Hydrophilic Paste is spread evenly over the joint surface. Care must be taken to ensure that the extruded RASCOfight Hydrophilic Paste bonds well to the surface. Depending on the particular demands and prevailing water pressure, it may be appropriate to apply two or three beads of RASCOfight Hydrophilic Paste to the joint. A minimum concrete cover of 100 mm must be ensured.

3 RASCOfight Hydrophilic Paste used in conjunction with RASCOfight QVE Hydrophilic Strip

Hydrophilic Systems

RASCOTight Hydrophilic Gasket/Tie Bolt Plug



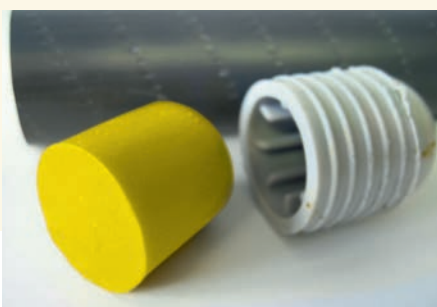
Straightforward solution for waterproofing tie bolts made from any material in groundwater zone.



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SYSTEM DESCRIPTION

Given that concrete does not automatically form a watertight junction with tie bolts, the RASCOTight Hydrophilic Gasket helps to stop the flow of water along the tie bolt.

The RASCOTight Hydrophilic Tie Bolt Plug prevents water infiltration through the hollow interior of tie bolts.

ADVANTAGES

- Straightforward installation
- Available for 26 and 43 mm diameters
- Reversible swelling
- Swells upon contact with water

PREPARATION/INSTALLATION

RASCOTight Hydrophilic Gaskets are fitted at roughly mid-position around the tie bolts prior to their installation. For very thick elements, the incorporation of two RASCOTight Hydrophilic Gaskets per tie bolt is recommended. A minimum concrete cover of 100 mm must be ensured. The tie bolts and RASCOTight Hydrophilic Gaskets must be protected against direct water contact during and after installation in the formwork, prior to concreting.

RASCOTight Hydrophilic Tie Bolt Plugs are inserted after striking. A plastic plug is first driven into the hole to a minimum depth of 100 mm from the wet (exposed) side. The RASCOTight Hydrophilic Tie Bolt Plug is then pressed into the tie hole. For fair-faced concrete walls, a plastic cover is provided as a finish on the interior.

1 Prepared tie bolt with RASCOTight Hydrophilic Gasket

2 Installed tie bolt with RASCOTight Hydrophilic Gasket

3 RASCOTight Hydrophilic Tie Bolt Plug and plastics plug



Injection Products



Injection Systems



Hydrophilic Systems



Bonded Systems



Machines and Accessories

Rascor International Ltd.
Gewerbstrasse 4
CH-8162 Steinmaur
Switzerland
Telefon + 41 (0) 44 857 11 11
Telefax + 41 (0) 44 857 11 00
info@rascor.com
www.rascor.com