WHERE TO USE
For waterproofing structural joints in civil, industrial and hydraulic constructions.

Some application examples
Waterstops are used to make water-tight structural joints in underground reinforced concrete constructions to avoid ingress from the water table and in reinforced concrete structures used to contain water, such as swimming pools, water tanks and dams.

TECHNICAL CHARACTERISTICS
Idrostop PVC is a highly flexible waterstop made from high-quality thermo-plastic vinyl resins, forming a product with good resistance to mechanical stresses, aggressive chemical action in alkaline environment, sea-water and acids. Idrostop PVC is used within concrete structures exposed to temperatures from -30°C to +70°C and is highly resistant to damage caused by sunlight, ozone and other aggressive agents present in the atmosphere and water table. The dimensions and type of Idrostop PVC used for each application generally depends on the following parameters:
- type of structure
- amount and type of movements predicted (e.g. no movement, axial movement, a combination of axial and transversal movements, etc.);
- thickness of the cast concrete

APPLICATION PROCEDURE
Idrostop PVC CJ & EJ ranges - embedded in the concrete
This type of joint is positioned at half thickness of the foundations or wall and must be stretched and held in position with wire. One end of the wire is attached to the reinforcement rods while the other end is attached to the waterstop. Insert a suitable type of compressible material between the first and second cast of concrete to form the joint (for EJ types) to prevent this from being clogged by any rigid material.

Idrostop PVC RG & RGE - external joint
This type of joint is fastened in place by nailing it directly to the formwork or the layer of lean concrete.
The fixing lugs must face towards the next layer of cast concrete so that it forms a perfect bond. As with embedded joints, insert a suitable type of compressible material between the first and second cast of concrete to form the joint (for RGE types) to prevent this from being clogged by any rigid material.

In the area immediately around the waterstop, vibrate the concrete so that it is perfectly compacted. When vibrating the concrete, care must be taken to avoid damaging or moving the Idrostop PVC.

Sizes available
Idrostop PVC CJ is available in three sizes:
- CJ15 (width 15 cm);
- CJ20 (width 20 cm);
- CJ25 (width 25 cm).

Idrostop PVC EJ is available in three sizes:
- EJ15 (width 15 cm);
- EJ20 (width 20 cm);
- EJ25 (width 25 cm).

Idrostop PVC RGC is available in two sizes:
- RGC20 (width 20 cm);
- RGC25 (width 25 cm).

Idrostop PVC RGE is available in two sizes:
- RGE20 (width 20 cm);
- RGE25 (width 25 cm).

PACKAGING
Idrostop PVC is supplied in 20 metre rolls for 15 cm and 20 cm widths and 15 metre rolls for 25 cm widths, wrapped in polyethylene.

PREFORMED INTERSECTION PIECES
Standard intersection pieces for L-, T- or X-junctions on flat or vertical placements are available for each Idrostop PVC waterstop profile:
- Idrostop PVC CJ15 – T Flat
- Idrostop PVC CJ15 – L Flat
- Idrostop PVC CJ15 – X Flat
- Idrostop PVC CJ15 – T Vert
- Idrostop PVC CJ15 – L Vert
- Idrostop PVC CJ15 – X Vert
- Idrostop PVC CJ20 – T Flat
- Idrostop PVC CJ20 – L Flat
- Idrostop PVC CJ20 – X Flat
- Idrostop PVC CJ20 – T Vert
- Idrostop PVC CJ20 – L Vert
- Idrostop PVC CJ20 – X Vert
- Idrostop PVC CJ25 – T Flat
- Idrostop PVC CJ25 – L Flat
- Idrostop PVC CJ25 – X Flat
- Idrostop PVC CJ25 – T Vert
- Idrostop PVC CJ25 – L Vert
- Idrostop PVC CJ25 – X Vert
- Idrostop PVC EJ15 – T Flat
- Idrostop PVC EJ15 – L Flat
- Idrostop PVC EJ15 – X Flat
- Idrostop PVC EJ15 – T Vert
- Idrostop PVC EJ15 – L Vert
- Idrostop PVC EJ15 – X Vert
- Idrostop PVC EJ20 – T Flat
- Idrostop PVC EJ20 – L Flat
- Idrostop PVC EJ20 – X Flat
- Idrostop PVC EJ20 – T Vert
- Idrostop PVC EJ20 – L Vert
- Idrostop PVC EJ20 – X Vert
- Idrostop PVC EJ25 – T Flat
- Idrostop PVC EJ25 – L Flat
- Idrostop PVC EJ25 – X Flat
- Idrostop PVC EJ25 – T Vert
- Idrostop PVC EJ25 – L Vert
- Idrostop PVC EJ25 – X Vert
- Idrostop PVC RGC20 – T Flat
- Idrostop PVC RGC20 – L Flat
- Idrostop PVC RGC20 – X Flat
- Idrostop PVC RGC20 – T Vert
- Idrostop PVC RGC20 – L Vert
- Idrostop PVC RGC20 – X Vert
- Idrostop PVC RGC25 – T Flat
- Idrostop PVC RGC25 – L Flat
- Idrostop PVC RGC25 – X Flat
- Idrostop PVC RGC25 – T Vert
- Idrostop PVC RGC25 – L Vert
- Idrostop PVC RGC25 – X Vert
- Idrostop PVC RGE20 – T Flat
- Idrostop PVC RGE20 – L Flat
- Idrostop PVC RGE20 – X Flat
- Idrostop PVC RGE20 – T Vert
- Idrostop PVC RGE20 – L Vert
- Idrostop PVC RGE20 – X Vert
- Idrostop PVC RGE25 – T Flat
- Idrostop PVC RGE25 – L Flat
- Idrostop PVC RGE25 – X Flat
- Idrostop PVC RGE25 – T Vert
- Idrostop PVC RGE25 – L Vert
- Idrostop PVC RGE25 – X Vert
SITE WELDING EQUIPMENT
Welding on site is done using a **Idrostop PVC Welding Iron** which features thermostat temperature control. Well-formed butt joints are achieved by securing the waterstop profiles in welding jigs to suit the different sizes:

- Idrostop PVC Welding Jig CJ15
- Idrostop PVC Welding Jig EJ15
- Idrostop PVC Welding Jig CJ20
- Idrostop PVC Welding Jig EJ20
- Idrostop PVC Welding Jig RGC20
- Idrostop PVC Welding Jig RGE20
- Idrostop PVC Welding Jig CJ25
- Idrostop PVC Welding Jig EJ25
- Idrostop PVC Welding Jig RGC25
- Idrostop PVC Welding Jig RGE25

### TECHNICAL DATA FOR IDROSTOP PVC WATERSTOP
(Valid for all profile types)

<table>
<thead>
<tr>
<th>Typical physical-mechanical properties</th>
<th>Method</th>
<th>u.m.</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardness</td>
<td>ISO 868:2003</td>
<td>Shore A</td>
<td>80 ± 2</td>
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<tr>
<td>Specific Gravity</td>
<td>BS 2782-6 Method 620A:1991</td>
<td>g/cm³</td>
<td>1.40 ± 0.05</td>
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<tr>
<td>Tensile strength</td>
<td>ISO 37:2005</td>
<td>MPa</td>
<td>14</td>
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<tr>
<td>Elongation at break</td>
<td>ISO 37:2005</td>
<td>%</td>
<td>325</td>
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<tr>
<td>Water Absorption, 32°C</td>
<td>ISO 62:2008</td>
<td>%</td>
<td>0.21</td>
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<tr>
<td>Thermal Stability</td>
<td>BS EN 60811-3-2:1995</td>
<td>minutes</td>
<td>106</td>
</tr>
<tr>
<td>Loss of Mass</td>
<td>BS EN 60811-3-2:1995</td>
<td>g/cm³</td>
<td>0.004</td>
</tr>
</tbody>
</table>
STORAGE
Store in a dry place at a temperature of between +10°C and +40°C.

PRODUCT FOR PROFESSIONAL USE.

WARNING
While the indications and guidelines contained in this data sheet correspond to the company’s knowledge and wide experience, they must be considered, under all circumstances, merely as an indication and subject to confirmation only after long-term, practical applications. Therefore, anybody who undertakes to use this product, must ensure beforehand that it is suitable for the intended application and, in all cases, the user is to be held responsible for any consequences deriving from its use.

All relevant references for the product are available upon request.