Expanding waterstop for construction joints

- highly flexible, easy application
- resistant to water pressure up to 2.5 bar
- also suitable for zones with tidal water movement
- suitable for contact with sea water
- temporary swelling protection in case of premature water contact
- swelling process is reversible

PRODUCT DESCRIPTION
VANDEX EXPASEAL N consists of a hydrophilic chloroprene rubber with reversible swelling properties; with German abP technical approval for construction.

AREAS OF APPLICATION
VANDEX EXPASEAL N is used to waterproof construction joints and pipe inlets in concrete structures exposed to permanent or temporary hydrostatic pressure.

PROPERTIES
After contact with water, VANDEX EXPASEAL N swells approx. 155% in volume. The pressure of the swelling action will cause VANDEX EXPASEAL N to expand in the joints, filling all cavities and thereby stop water flow. Reversible expansive properties, dimension remains stable. VANDEX EXPASEAL N does not entrain water through its structure. Swelling process is limited to the water contact surfaces.

SURFACE PREPARATION
All joints to be waterproofed with VANDEX EXPASEAL N must be clean and free from loose particles. Stagnant water and sharp protrusions must be avoided or removed. VANDEX EXPASEAL N can also be applied on mat moist surfaces.

In case of horizontal construction joints, it is recommended to flatten the freshly applied concrete surface by wooden trowel (approx. 5 mm wide) or similar in order to receive an even and clean fixing surface for VANDEX EXPASEAL N.

APPLICATION
For joints widths of 20–40 cm VANDEX EXPASEAL N is fixed in the middle of the joint. As a precaution, thicker walls can be fitted with two VANDEX EXPASEAL N waterstops. VANDEX EXPASEAL N is set into the joint with VANDEX UNIFLEX or another suitable adhesive, or mechanically fixed in the construction joint with nails (approx. 4–5 nails per linear meter) or a fixing rail. Always ensure that it is in intimate contact with the surface of the substrate, otherwise the full waterproofing effect will not be achieved.

Plan:

VANDEX EXPASEAL N waterstops must not be stretched during installation. Butt joints: VANDEX EXPASEAL N butt joints don’t need to be glued or welded, they must have a lateral overlap of ≥ 10 cm (cf. plan above).

PACKAGING
VX EXPASEAL N 2010: box with 2 x 25 m = 50 m each
VX EXPASEAL N 2005: box with 2 x 50 m = 100 m each

STORAGE
When stored in a dry, frost-free place in unopened, undamaged original packaging, shelf life is 12 months.

HEALTH AND SAFETY
VANDEX EXPASEAL N is not a dangerous substance. For further information please refer to Safety Data Sheet on www.vandex.com.
The information contained herein is based on our long-term experience and the best of our knowledge. We can, however, make no guarantee since for a successful outcome, all circumstances in an individual case must be taken into consideration. Indications of quantities required are only averages which in certain cases might be greater.

**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Basis</th>
<th>hydrophilic chloroprene rubber (neoprene and others)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>black</td>
</tr>
<tr>
<td>Density [kg/dm³]</td>
<td>1.65</td>
</tr>
<tr>
<td>Tensile strength [MPa]</td>
<td>1.2</td>
</tr>
<tr>
<td>Elongation at rupture [%]</td>
<td>525</td>
</tr>
<tr>
<td>Swelling capacity [% by wt]</td>
<td>≥ 155</td>
</tr>
<tr>
<td>Application temperatures [°C]</td>
<td>–15 up to +50</td>
</tr>
<tr>
<td>Dimensions [mm]</td>
<td>20 × 10</td>
</tr>
<tr>
<td>Weight [g/m]</td>
<td>342</td>
</tr>
</tbody>
</table>

**Type 2010:**

| Dimensions [mm] | 20 × 10 |
| Weight [g/m]    | 342     |

**Type 2005:**

| Dimensions [mm] | 20 × 5  |
| Weight [g/m]    | 166     |

All data is averaged from several tests under laboratory conditions. In practice, climatic variations such as temperature, humidity, and porosity of substrate may affect these values.

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