**SWELLSEAL® PRODUCTS - Why Hydrophilic Waterstops?**

**SWELLSEAL®** hydrophilic waterstops expand upon contact with water to fill a void or joint and create a compression seal waterstop. Unlike traditional molded waterstops that are a fixed sized and must be placed in fresh concrete, **SWELLSEAL®** hydrophilic waterstops can be placed in any joint or interface. Old to new concrete, concrete to steel joints, between precast concrete members, or even steel to steel interfaces are no problem for **SWELLSEAL®** hydrophilic waterstops. Available in extruded rubber shapes or as a gun grade paste, **SWELLSEAL®** hydrophilic waterstops offer effective solutions for difficult surface to surface sealing applications.

**Scope of SWELLSEAL® Applications:**
- Waterproofing cold joints
- Waterproofing construction joints
- Waterproofing joints between precast elements
- Sealing pipe penetrations
- Sealing encased steel H-beam penetrations
- Sealing steel to steel and steel to concrete joints

**Typical SWELLSEAL® Applications:**
- Wastewater treatment plants
- Water purification plants & reservoirs
- Manhole covers & grade rings
- Box culverts
- Underground parking structures
- Reservoirs
- Sheet pile interlocks

**SWELLSEAL® 8**

**Properties and Advantages:**
- Up to 800% expansion in water
- Greatest expansion of **SWELLSEAL®** products
- Flat profile 3/4" x 1/8"
- Round profile 1/4" diameter
- 600% Elongation
- Requires only 6 inches of fresh concrete cover
- Good chemical resistance
- Concrete can be placed immediately after installation
- Easy installation with nails, screws, or adhesives

**Ideal applications for SWELLSEAL® 8:**
- **SWELLSEAL® 8 F**
  - Between pre-cast members
  - Thick wall pours
  - Blockout repairs
  - Poured in place concrete joints

- **SWELLSEAL® 8 R**
  - Gasket forming material around pre-cast members
  - Manhole covers
  - Sheet pile interlocks

Seals horizontal and vertical cold joints

Seals between precast members
SWELLSEAL® 2010
Properties and Advantages:

- 200% Expansion in water
- Rectangular preformed profile of \(\frac{3}{8}\)" x \(\frac{3}{4}\)"
- 600% Elongation
- Requires only 4 inches of fresh concrete cover*
- Delayed reaction in water - full expansion in 10 days
- Good chemical resistance
- Concrete can be placed immediately after installation
- Easy installation with nails, screws, or adhesives

Ideal Applications for SWELLSEAL® 2010:

- Poured in place concrete joints
- Slow expansion is desired
- Low pressure from expansion is required.

* Cover can be reduced to 3.28 inches in all directions if concrete strength is at least 4260 psi or greater

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SWELLSEAL® JOINT
Properties and Advantages:

- Up to 670% expansion in water
- Highest head pressure resistance
- Rectangular in overall shape SWELLSEAL® JOINT contains an inner compression seal for the purpose of balancing pressure during expansion of the outer hydrophilic shoulders
- Excellent chemical resistance
- Highest of tensile strengths among SWELLSEAL® products
- Lowest in overall pressure exertion on structure during expansion
- Concrete can be placed immediately after installation
- Easy installation with nails, screws, or adhesives

Ideal applications for SWELLSEAL® JOINT:

- Poured in place concrete joints
- Tunnel and metro works
- Wastewater treatment plants
**SWELLSEAL® WA**

**Properties and Advantages:**
- 200% Expansion in water
- Gunnable paste ideal for rough, irregular surfaces
- Adjustable bead size and shape
- Withstands head pressures in excess of 330 feet
- Elongation greater than 600%
- Excellent adhesive qualities, can be used to adhere preformed materials in place
- Good chemical resistance
- May be placed underwater if concrete can be poured immediately upon installation

**Ideal applications for SWELLSEAL® WA:**
- Sheet pile interlocks
- Manhole covers
- Precast members
- Concrete wall ties
- Pipe penetrations
- Sealing encased steel H-beam penetrations
- Sealing steel to steel and steel to concrete joints
- Between rough repair concrete and new pours

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**SWELLSEAL® PRODUCT COMPARISON CHART**

<table>
<thead>
<tr>
<th></th>
<th>SWELLSEAL® 8F</th>
<th>SWELLSEAL® 8R</th>
<th>SWELLSEAL® 2010</th>
<th>SWELLSEAL® JOINT</th>
<th>SWELLSEAL® WA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical form</td>
<td>preformed flat</td>
<td>preformed round</td>
<td>preformed rectangle</td>
<td>preformed rectangle</td>
<td>gunnable mastic</td>
</tr>
<tr>
<td>Profile</td>
<td>3/4” x 1/8”</td>
<td>1/4” diameter</td>
<td>3/8” x 3/4”</td>
<td>1” x 5/16”</td>
<td>minimum 3/8” bead</td>
</tr>
<tr>
<td>Minimum Concrete Cover (inches)</td>
<td>6</td>
<td>6</td>
<td>4</td>
<td>3-3/4</td>
<td>3</td>
</tr>
<tr>
<td>Expansion in Water</td>
<td>580% 1 Day</td>
<td>340% 1 Day</td>
<td>200% 10 Days</td>
<td>Joint 100% 4 Days</td>
<td>Shoulders 540% 4 Days</td>
</tr>
<tr>
<td>Tensile Strength (psi)</td>
<td>1109</td>
<td>1109</td>
<td>1493</td>
<td>Joint 1706</td>
<td>Shoulders 1308</td>
</tr>
<tr>
<td>Elongation at Break</td>
<td>600%</td>
<td>620%</td>
<td>600%</td>
<td>Joint 610%</td>
<td>Shoulders 670%</td>
</tr>
<tr>
<td>Shore A Hardness</td>
<td>53</td>
<td>53</td>
<td>52</td>
<td>Joint 53</td>
<td>Shoulders 50</td>
</tr>
<tr>
<td>Specific Density</td>
<td>1.2</td>
<td>1.2</td>
<td>1.2</td>
<td>1.23-1.27</td>
<td>1.45</td>
</tr>
<tr>
<td>Maximum Head Pressure</td>
<td>&gt; 100 ft</td>
<td>&gt; 100 ft</td>
<td>&gt; 100 ft</td>
<td>&gt;660 ft.</td>
<td>&gt;330 ft.</td>
</tr>
<tr>
<td>Cure Time Before Pour</td>
<td>immediate</td>
<td>immediate</td>
<td>immediate</td>
<td>immediate</td>
<td>immediate</td>
</tr>
</tbody>
</table>

**Waterproofing the WORLD**

**DE NEEF CONSTRUCTION CHEMICALS**

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