**SEAL LEAKS**

**DESCRIPTION**

SPETEC PUR H200 is a single component, water-activated, hydrophobic, low viscosity, closed cell polyurethane injection resin.

**ADVANTAGES**

- Very low viscosity.
- Water impermeable.
- Adjustable set time – as fast as 20 seconds.
- Injected as a single component.
- Phthalate free (more environmentally friendly).
- Certified by Turessdl Labs to NSF/ANSI 61-5 (approved for contact with drinking water).

**FIELD OF APPLICATION**

- Cutting off high flow leaks.
- Filling voids behind concrete structures.
- Cutting off underground water flows.
- Stabilizing soil.
- Seawall repair.

**APPLICATION**

**Note:** the following are a few typical application descriptions. In case of other jobsite parameters, please contact our technical department.

**PRELIMINARY ANALYSIS**

For leaking joints, identify if the cold joint runs vertically or horizontally. Injection holes have to be angle drilled into the joint. For leaking cracks, drill the injection holes in a zig-zag pattern around the crack to make sure that the injection hole intersects the crack.

**PREPARATION OF THE SUBSTRATE**

Drill at 45° angle into the crack or joint. Ideally the injection hole should intersect the joint or crack half way through the thickness of the wall or slab. Blow the dust out of the injection hole with a probe that reaches the back of the hole. Fix a packer of the right diameter into the injection hole.

**PREPARATION OF THE PRODUCT**

Read the technical and safety data sheets prior to commencement of the injection works. Vigorously shake the ACC H200 or ACC H200 Fast accelerator before use and add the required quantity (2-10%) into the Spetec PUR H200 resin. Mix the catalyst homogeneously into the resin and protect against moisture and rain to prevent premature reaction.

**APPLICATION**

- Start the injection at the first packer; for vertical joints or cracks this is usually the lowest packer.
- Do not over pressurize while injecting; the correct injection pressure is the pressure that allows to resin to flow into the crack or joint. Avoid injecting at pressures of more than 1500psi (100bar).
- If unreacted resin comes out of the joint or crack, stop the injection and move on to the next packer.
- After the last injection of resin into the packer, shoot a little bit of water into the packer in order to make sure that the last injected resin will react as well.
- Only catalyze the resin you will use within the next few hours.
- Always flush the pump out at the end of the day. Resin left in the pump overnight can damage the pump.

**REQUIRED TOOLS**

Drill and drill bits of appropriate diameter and length. Mechanical Packers of appropriate diameter and length. Injection pump; manual, pneumatic or electric.

**CLEANING AND MAINTENANCE**

After the injection, clean the pump with Spetec Pump Cleaner. If the pump will not be used for several days, flush the Spetec Pump Cleaner out of the pump with lightweight motor oil or hydraulic fluid and leave it there until the next usage. Never rinse the pump with water. After injection, remove the packers from the concrete and fill the holes with a fast setting cement or any other appropriate filler material.

**COMPLIMENTARY PRODUCTS**

For certain application where a faster reaction time is needed a special fast catalyst can be used. Pump cleaner, Mechanical Packers, Oakum, and Injection Needles. ACC H200 or ACC H200 Fast accelerator.

**ADVICE / FOCAL POINTS**

Avoid injecting when temperatures are below -4°F (-20°C). In extreme cold conditions it is recommended to warm the resin and catalyst. Since SPETEC PUR H200 is hydro active, liquid water should be present.

**TECHNICAL DATA**

**APPEARANCE**

Physical Properties 77° F (25° C) - Liquid

Physical Properties - Cured
### Spetec PUR H200

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile Strength (ASTM D-1623)</td>
<td>450 p.s.i. 2,965 millibar</td>
</tr>
<tr>
<td>Tensile Elongation (ASTM D-1623)</td>
<td>2.9%</td>
</tr>
<tr>
<td>Shrinkage (ASTM D-1042/D-756)</td>
<td>-</td>
</tr>
<tr>
<td>Compressive Strength (with fine sand)</td>
<td>(ASTM C-39)</td>
</tr>
<tr>
<td></td>
<td>2,050 p.s.i. 141,343 millibar</td>
</tr>
<tr>
<td>Pre-activated mix viscosity</td>
<td>80 - 100 Centipose</td>
</tr>
</tbody>
</table>

### Expansion

Up to 30x expansion (free foam)

Properties will vary depending on application conditions.

### REACTION TIMES

#### ACC H200 (Not recommended to use below 2%)

<table>
<thead>
<tr>
<th>Quantity by Volume</th>
<th>2%</th>
<th>5%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Reaction</td>
<td>25 sec</td>
<td>15 sec</td>
<td>8 sec</td>
</tr>
<tr>
<td>Full Rise</td>
<td>1 min 50 sec</td>
<td>1 min 27 sec</td>
<td>30 sec</td>
</tr>
</tbody>
</table>

#### ACC H200 Fast (Not recommended to use below 5%)

<table>
<thead>
<tr>
<th>Quantity by Volume</th>
<th>5%</th>
<th>7.5%</th>
<th>10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initial Reaction</td>
<td>5 sec</td>
<td>5 sec</td>
<td>5 sec</td>
</tr>
<tr>
<td>Full Rise</td>
<td>30 sec</td>
<td>22 sec</td>
<td>16 sec</td>
</tr>
</tbody>
</table>

### CONSUMPTION

Consumption has to be assessed on site and is influenced by the amount of water leaking, thickness of the concrete slab or wall, presence of voids in and around the concrete, etc.

### PACKAGING

Spetec PUR H200 is supplied in 5 Gallon Pails, 50 Gallon Drums, 250 Gallon Totes (18.9 Liter Pails, 189.2 Liter Drums, 946.3 Liter Totes)

### STORAGE AND SHELF LIFE

Store between 50° - 80° F (10° - 26° C).

### SAFETY PRECAUTIONS

Avoid contact with eyes and skin, always use personal protective equipment in compliance with local regulations. Read the relevant Safety Data Sheet before use. Safety Data Sheets are available on www.alchemy-spetec.com

When in doubt contact Alchemy-Spetec Technical Service.

FOR INDUSTRIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. READ MATERIAL SAFETY DATASHEET PRIOR TO EVERY USE.