TechSeal S1010 Sealant

Single Component, Elastomeric, Self-leveling Polyurethane Sealant

**Description:** S1010 is a pourable, non-priming, self-leveling elastomeric polyurethane designed for expansion joints in concrete floors, decks, for pedestrian/vehicular traffic. It provides excellent abrasion resistance and flexibility. S1010 is a single component polyurethane which cures by reaction with atmospheric moisture to become a tough, durable rubber elastomer.

**Uses**
- Pedestrian Traffic - Light to Heavy Duty
  - Balconies
  - Industrial Floors
  - Plazas
- Vehicular Traffic
  - Parking ramps
- Expansion Joints
- Interior and exterior
- Pitch Pans
- Sidewalks
- Driveways
- Loop Sealant

**Features**
- Easy to apply
- Pourable, installs/cures quickly
- Abrasion resistant
- Firm elastomer, durable/long wearing
- Movement +/- 25%
- Expands/contracts with joint movement
- Nonpriming
- Excellent adhesion to most substrates
- Self leveling
- No tooling required
- Chemical resistant
- Resists chloride and most solvents
- Colors
- Black, and Grey

**Typical Physical Properties**

<table>
<thead>
<tr>
<th>Test</th>
<th>Results</th>
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</thead>
<tbody>
<tr>
<td>Test</td>
<td></td>
</tr>
<tr>
<td>Solids</td>
<td>92%</td>
</tr>
<tr>
<td>Viscosity (Brookfield)</td>
<td>25,000 cps</td>
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<tr>
<td>Elongation (ASTM D-412)</td>
<td>600%</td>
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<tr>
<td>Tensile Strength (ASTM D-412)</td>
<td>975 psi</td>
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<tr>
<td>Hardness (ASTM D-4420)</td>
<td>65 shore A</td>
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<tr>
<td>Water Absorption (ASTM D-471)</td>
<td>&lt;1%</td>
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<tr>
<td>Weight per gallon</td>
<td>9.3 lbs/gal</td>
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<tr>
<td>Cure Time (77F 50% RH)</td>
<td>3-6 hours tack free</td>
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<tr>
<td>Weathering (ASTM G-26)</td>
<td>Excellent</td>
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</table>
**How to Apply**

**Joint Preparation**
The area design should include enough joints so each joint does not exceed +/- 25% movement.
The depth of the sealant should be ½ the width of the joint.
The maximum depth of the sealant is ½ inch, and minimum is ¼ inch.
Sealant depth must be controlled with backer rod or expansion joint filler. Other caulks or sand should not be used as fillers.
Sealant should be applied at temperatures above 30 F. Surfaces must be clean and dry with no moisture or frost.

**Surface Preparation**
All surfaces must be clean, dry and free of grease, oil, and form release agents.
New concrete or concrete must be cured a minimum of 7 days...
Clean dirty surfaces using pressure wash, grinding or wire brush
Remove all wire ties, and fill all voids/cracks with good cement-based patching material.

**Priming**
For most applications, priming is not required. Joints subject to frequent water immersion must be primed. Surfaces other than clean, cured concrete should be tested for adhesion. Verify adhesion using ASTM D 3359, Measuring by Tape, Method A. On the 0-5 scale, a minimum adhesion of 4A is required.

**Application**
Fill joints by pouring sealant from a spouted container. Adjust spout size for the size of the joint.
Fill joint uniformly from the bottom of the joint. Sealant will self level for a clean surface.
Maximum depth of S1010 should be ½ inch. Backer rod, joint fillers should be tightly installed to control the depth (thickness) of the S1010 sealant and prevent the sealant from flowing out.

**Precautions**
Do not apply polyurethane sealants when rain is expected during the cure time.
Do not allow S1010 to come in contact with water or alcohols.
Do not apply S1010 in vicinity of uncured silicone materials.
Some applications subject to extreme pressure from puncture will require a stiff, high density backer rod material.
Sealant may bubble from damp/wet substrate, high humidity, or if material is applied too deep. Proper application is the responsibility of the user.

**Cure Time**
Protect joint from dirt and traffic until cured.
Curing will vary with temperature and humidity. Cure times assume 77F and 50% RH. Lower temperatures will require longer cure times.
Tack free: 3-6 hours
Foot traffic: 2 days
Full cure: 3-6 days

**Clean-Up**
Clean equipment with mineral spirits immediately after use.
Caution!!!!
Contains polyurethane resin and mineral spirits. Avoid prolonged and repeated contact with skin. Do not take internally. Avoid breathing vapors during and after application. Use in well ventilated areas. Appropriate respirator (MSHA/NIOSH) must be worn by applicator and others in the area of application. Do not use near open flame or burner. Keep away from heat, flame or sources of ignition. Keep out of the reach of children.

Storage
Keep S1010 cool in hot weather, warm in cool weather by storing indoors.

Warranty
Important: while the information and data contained herein are presented in good faith and believed to be reliable, they do not constitute part of our terms and conditions of sale. Nothing herein shall be deemed to constitute a warranty express or implied that said information or data are correct or that the products described are merchandise or fit for a particular purpose, or that said information/data products can be used without infringing patents of third parties. TechSeal’s sole warranty is that the product will meet the specifications at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase prices or replacement of any product shown to be other than as warranted.