P-TUFF® SEALANT 50A (PTS 50A)
A Two Component, Aromatic, 50 Shore A Caulking Compound for Interior Application

1.01 DESCRIPTION
P-Tuff® Sealant 50A is two-component, 1:1 ratio, aromatic, rapid setting, self leveling, polyurea polyurethane, 50 shore A caulking compound for interior application. Please use the correct product grade that complies with VOC regulations as per federal, state, county and city regulations/codes at the place of installation of product.

1.02 FEATURES
- Down Time 30-90 Minutes
- Flexible
- Meets USDA Criteria
- Meets VOC Regulations
- Non Toxic
- Odorless
- Remains Flexible, Even in Cold Temperatures

1.03 TYPICAL USES
P-Tuff® Sealant 50A is used on interior concrete surfaces, to repair random cracks, control joints, and other areas where down time is limited. P-Tuff® Sealant 50A will discolor in exterior applications.
- Airports
- Bridge Headers
- Food Processing Plants
- Freezers & Cold Storage
- Grade Matching
- Parking Garage Decks
- Saw/Utility Cuts
- Water Treatment Plants

1.04 COLOR
Concrete Grey

1.05 PACKAGING
10-gallon kit: 5 gallon (18.9 liters) pail of Side-A and 5 gallon (18.9 liters) pail of Side-B
100-gallon kit: 55 gallon drum (net 50 gallons:189 liters) of Side-A and 55 gallon drum (net 50 gallons:189 liters) of Side-B

1.06 SURFACE PREPARATION
A. Allow concrete to cure 28 days before installation.
B. Saw cut the joint to ACI recommendations.
C. All joints must be clean and dry prior to installing P-Tuff® Sealant 50A.
D. If joint is damp, dry with heat torch.
E. If primer is required, use Enviro-Grip™ EP#2 or Enviro-Grip™ EBF-LV.
F. Remove all dust from the concrete pores prior to installing P-Tuff® Sealant 50A.
G. If backer rod is used in control joints, the recommended depth is no greater than 25% of the total depth of the slab.
H. Construction joints are to be filled to full depth using no backer rod or silica sand.
I. To repair T-joints, the joint should be cut a minimum of 25% of the total depth of the slab. The side of the T-joint must be cut 1- 1/2” (3.81 cm) from the joint and a minimum of 1/2” (1.27 cm) deep.
J. For random crack each side of the crack should be cut to create a minimum 1/2” (1.27 cm) deep vertical edge.
K. Ensure that all joint edges are at 90° angles to grade with no V-grooving or feather edges.

1.07 MIXING
P-Tuff® Sealant 50A may NOT be diluted under any circumstance.
Pre-mix P-Tuff® Sealant 50A Side-B material before combining with Side-A. Side-A material requires no mixing. Add Side-A to Side-B while mixing, using a mechanical mixer (Jiffy Mixer) with a low speed drill. Mix until a homogeneous mixture and color is attained (at least 5 minutes).
Use care to scrape the sides of the container to ensure that no unmixed material remains. Use caution not to whip too much air into the material as this may result in pinhole blisters or shortened pot life.

<table>
<thead>
<tr>
<th>TECHNICAL DATA (Based on draw down films)</th>
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<tbody>
<tr>
<td>Tear Resistance Die C, ASTM D-624</td>
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<tr>
<td>50 ± 5 pli (8.76 ± 0.8 kN/m)</td>
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<tr>
<td>Specific Gravity</td>
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<td>A-Side: 1.06 ± 0.1</td>
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<tr>
<td>B-Side: 1.00 ± 0.1</td>
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<tr>
<td>Viscosity at 80°F (26°C)</td>
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<tr>
<td>A-Side: 1600 ± 500 cps</td>
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<tr>
<td>B-Side: 1200 ± 500 cps</td>
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<tr>
<td>Gel Time @ 75°F (24°C), ASTM D-2471</td>
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<td>50 ± 10 seconds</td>
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<tr>
<td>Hardness, ASTM D-2240 Shore A</td>
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<tr>
<td>50 ± 5</td>
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<tr>
<td>Tensile Strength, ASTM-D412</td>
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<tr>
<td>425 ± 50 psi (2.93 ± 0.35 MPa)</td>
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<tr>
<td>Ultimate Elongation, ASTM D-412</td>
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<td>550 ± 50%</td>
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<tr>
<td>Volatile Organic Compounds</td>
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<tr>
<td>ASTM D-2369-81</td>
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<tr>
<td>&lt;0 lbs/gal (&lt;0gm/liter)</td>
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APPLICATION

2.01 APPLICATION BASICS
For best results machine dispense using a 1:1 ratio pump, with or without heater as required. This material can be applied at environmental temperatures from 32°F (0°C) to as high as 135°F (57°C) but the product needs to be conditioned at 75-80°F (24-26°C) prior to use.

2.02 FINISHING
After applying P-Tuff® Sealant 50A wait 60-90 minutes, depending on temperature and humidity, before opening to traffic. Slice off any over pour flush to grade. The surface can be utilized to light traffic within 90 minutes of application.

2.03 CLEANUP
Cured product may be disposed of without restriction. Mix excess Side-A to Side-B material and allow to cure. Equipment should be cleaned with an environmentally-safe solvent immediately after use, as permitted under local regulations. Check local, state and federal laws before disposing of material.

2.04 SHELF LIFE AND STORAGE
P-Tuff® Sealant 50A has a shelf life of 12 months from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

2.05 LIMITATIONS
• Do not use in cracks, construction joints or control joints if surface is subject to thermal cycling.
• Discoloration will occur if exposed to UV, however no change will occur in the physical properties.

WARNING: This product contains isocyanates and curatives.

Please read all information in the General & Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. PSI Products are for "Professional Use Only" and preferably applied by professionals who have prior experience with PSI Products or have undergone training in application of PSI Products. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data, instructions, and project specific recommendations.

LIMITED WARRANTY
PSI warrants its products to be free of manufacturing defects and that they will meet PSI current published physical and chemical properties. Seller’s sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PSI of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PSI shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. PSI shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the user. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. PSI reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER
All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user’s responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and PSI makes no claim that these tests or any other tests, accurately represent all environments.

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