



# P-TUFF® SEALANT 80A (PTS 80A)

A Two Component, Aromatic, 80 Shore A Caulking Compound for Interior and Exterior Horizontal Application

## 1.01 DESCRIPTION

P-Tuff® Sealant 80A is a two component, aromatic, 1:1 ratio, rapid setting, self leveling, 100% solids polyurea caulking compound for interior and exterior horizontal applications. Please use the correct product grade that complies with VOC regulations as per federal, state, statutory bodies, 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 80A is used on interior and exterior horizontal concrete surfaces, to repair random cracks, control joints, and other areas where down time is limited. P-Tuff® Sealant 80A will discolor in exterior applications.

- Airports
- Bridge Headers
- Food Processing Plants
- Freezers and Cold Storage
- Grade Matching
- Industrial/Manufacturing Facilities
- Parking Garage Decks
- Saw/Utility Cuts
- Spalls
- Truck Aprons
- Warehouses
- Waste 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

- Allow concrete to cure 28 days before installation.
- Saw cut the joints to ACI recommendations.
- All joints must be clean and dry prior to installing P-Tuff® Sealant 80A.

- If joint is damp, dry with heat torch.
- If primer is required, use Enviro-Grip™ EP#2 or Enviro-Grip™ EBF-LV.
- Remove all dust from the concrete pores prior to installing P-Tuff® Sealant 80A.
- If backer rod is used in control joints, the recommended depth is not greater than 25% of the total depth of the slab.
- Construction joints are to be filled to full depth using no backer rod or silica sand.
- 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.
- For random cracks, each side of the crack should be cut to create a minimum 1/2" (1.27 cm) deep vertical edge.
- Ensure that all joint edges are at 90° angles to grade with no V-grooving or feather edges.

## TECHNICAL DATA (Based on draw down films)

Tear Resistance Die C, ASTM D-624	275 ± 50 pli (48.2 ± 8.8 kN/m)
Specific Gravity	A-Side: 1.16 ± 0.1 B-Side: 1.01 ± 0.1
Viscosity at 80°F (26°C)	A-Side: 430 ± 50 cps B-Side: 550 ± 50 cps
Gel Time @ 75°F (24°C), ASTM D-2471	40-60 seconds
Hardness, ASTM D-2240 Shore A	80 ± 5
Tensile Strength, ASTM-D412	1500 ± 200 psi (10.34 ± 1.38 MPa)
Ultimate Elongation, ASTM D-412	300 ± 50%
Volatile Organic Compounds ASTM D-2369-81	<0 lbs/gal (<0gm/liter)
Volatile Organic Compounds, ASTM D-2369-81	<0.5 lbs/gal <60 gm/liter

## 1.07 MIXING

P-Tuff® Sealant 80A may not be diluted under any circumstance.

Pre-mix P-Tuff® Sealant 80A 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 with a low speed drill and "Jiffy" Mixer blade. Mix until a homogeneous mixture and color is obtained (at least 5 minutes).

Use care to scrape the sides of the container to ensure that no un-mixed material remains. Use caution not to whip too much air into the material as this may result in pinhole blisters or shortened pot life.

## 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 80A 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, as permitted under local regulations, immediately after use. Check local, state and federal laws before disposing of material.

### 2.04 SHELF LIFE AND STORAGE

P-Tuff® Sealant 80A 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).

### 2.06 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 the 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 applicator. 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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## Coverage Rates - Linear Feet / Gallon

		Width of Joint						
		1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
depth of Joint	1/4"	308	205	154	123	102	88	77
	3/8"	205	136	102	82	68	58	51
	1/2"	154	102	77	61	51	44	38
	5/8"	123	82	61	49	41	35	30
	3/4"	102	68	51	41	34	29	25
	7/8"	88	58	44	36	29	25	22
	1"	77	51	38	30	25	22	19

Coverages and yields shown do not include allowances for loss or waste and variations in job conditions. Each user must establish his own factors for loss from experience