



# P-TUFF® SEALANT 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. Be sure to use the right 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

- Meets VOC Regulations
- Flexible
- Down Time 30-90 Minutes
- Odorless
- Meets USDA Criteria
- Non Toxic
- 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.

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

Note: P-Tuff® Sealant 80A will discolor in exterior applications.

## 1.04 COLORS

Concrete gray

## 1.05 PACKAGING

10-gallon kit: One 5 gallon (18.9 liters) pail of Side-A  
and one 5 gallon (18.9 liters) pail of Side-B

100-gallon kit: One 55 gallon drum (net 50 gallons; 189 liters)  
of Side-A and 55 gallon drum (net 50 gallons; 189 liters) of Side-B

## TECHNICAL DATA

(Based on draw down films)

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

## 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.

- 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 cracks, 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

- A. P-Tuff® Sealant 80A may not be diluted under any circumstance.
- B. Pre-mix P-Tuff® Sealant 80A Side-B material before combining with Side-A. Side-A material requires no mixing.
- C. 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).
- D. Use care to scrape the sides of the container to ensure that no unmixed material remains.
- E. 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. Use static mixing tube with restrictor before dispensing. Material left in static mixing tube will thicken in about 2 minutes and mixing tube needs to be discarded at that point.

This material can be applied at environmental temperatures from 20°F (-6.6°C) to as high as 135°F (57°C). The product needs to be conditioned at 75-80°F (24-26°C) prior to use. This material can be used to fill the entire crack or joint. Excess over flow material from joints should be shaved off in about 60 to 90 minutes after application.

### 2.02 FINISHING

After applying P-Tuff® Sealant 80A wait 60-90 minutes, depending on temperature and humidity before open to traffic. Surface can be

## 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

utilized to light traffic within 90 minutes of application. Slice off any over pour flush to grade.

### 2.03 CLEAN-UP

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

### 2.04 STORAGE

P-Tuff® P-Tuff® Sealant 80A has a shelf life of one year from the date of manufacture; when stored indoors at a temperature between 60°F to 95°F (15°-35°C) and in the original factory sealed containers.

### 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.

**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.

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