



P-TUFF® SEALANT 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. 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 50A is used on interior concrete surfaces, to repair random cracks, control joints, and other areas where down time is limited.

- Food Processing Plants
- Airports
- Bridge Headers
- Grade Matching
- Freezers & Cold Storage
- Saw/Utility Cuts
- Water Treatment Plants
- Parking Garage Decks

Note: P-Tuff® Sealant 50A will discolor in exterior applications.

1.04 COLOR

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

1.06 SURFACE PREPARATION

- Allow concrete to cure 28 days before installation.
- Saw cut the joint to ACI recommendations.
- All joints must be clean and dry prior to installing P-Tuff® Sealant 50A.
- If joint is damp, dry with heat torch.

TECHNICAL DATA

(Based on draw down films).

Specific Gravity	
Side-A	1.06 ± 0.1
Side-B	1.08 ± 0.1
Viscosity at 80°F (26°C)	
Side-A	1600 ± 500 cps
Side-B	1200 ± 500 cps
Gel Time @ 75°F (24°C), ASTM D-2471	50 ± 10 seconds
Shore A Hardness, ASTM D-2240	50 ± 5A
Tensile Strength, ASTM D-412	425 ± 50 psi (2.93 ± 0.35 MPa)
Elongation, ASTM D-412	550 ± 50%
Tear Strength, ASTM D-624	50 ± 10 pli (8.76 ± 1.7 kNm)
Volatile Organic Compounds, (Side-A & Side-B Combined)	
ASTM D-2369-81	<0 lbs/gal (<0gm/liter)

- 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 50A.
- 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 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 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 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 CLEAN-UP

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.

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

2.04 STORAGE

P-Tuff® Sealant 50A 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, 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.

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PSI warrants its products to be free of manufacturing defects and that they will meet PSI current published physical properties. PSI warrants that its products, when properly installed by a state licensed waterproofing contractor according to PSI guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of 12 months. 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.

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