



# 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

- 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.
- 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 no greater than 25% of the total depth of the slab.

## TECHNICAL DATA (Based on draw down films)

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

- 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.
- 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.

## 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.**

## 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

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