P-TUFF® SEALANT JFR

A Two Component, Jet Fuel/Chemical Resistant Polyurethane Caulking Sealant

1.01 DESCRIPTION

P-Tuff® Sealant JFR is a two-component, Jet Fuel/Chemical Resistant, 1:1 ratio, self-leveling polyurethane caulking sealant. 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
- Non Toxic
- Remains Flexible, Even in Cold Temperatures
- Conforms To Federal Specification SS-S-200E

1.03 TYPICAL USES

P-Tuff® Sealant JFR is used on interior or exterior horizontal concrete surfaces to repair random cracks and joints.

- Airport Runways
- Bridge Headers
- Parking Aprons

1.04 COLOR

Black

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 or 189 liters) of Side-A and 55 gallon drum (net 50 gallons or 189 liters) of Side-B

1.06 SURFACE PREPARATION

A. Allow concrete to cure 28 days before installation.
B. All joints must be clean and dry prior to installing P-Tuff® Sealant JFR.
C. Remove all dust from the concrete pores prior to installing P-Tuff® Sealant JFR.
D. All joints must be absolutely clean.
F. The use of primer is optional. If primer is required, PSI recommends the use of Enviro-Grip® EP#1 or EP#2.
G. All curing compounds, old caulks, grease, waterproofing compounds, etc. must be removed.
H. For non-porous surfaces such as metal etc., cleaning to a bright surface is recommended.
I. Polyethylene rod or polyurethane foam is recommended as a joint-filler and backup material.
J. Joint Design: Suitable for all properly designed joints following accepted engineering practices.

TECHNICAL DATA
(Based on draw down films).

Mixing Ratio (A:B) by Volume	1:1 (A:B)
Specific Gravity	
Part-A	1.02 ± 0.1
Part-B	1.27 ± 0.1
Viscosity at 75°F (24°F)	
Part-A	2000 ± 300 cps
Part-B	3000 ± 300 cps
Working Life @ 77°F (25°F)±, 50% RH	25-35 minutes
Tack-Free Time @ 77°F ±	12 Hours
Cure Time @ 77°F, RH 50%	48-72 Hours
Shore A Hardness, ASTM D-2240	15 ± 5
Tensile Strength, ASTM D-412	400 ± 50 psi (2.75 ± 0.3 mPa)
Elongation, ASTM D-412	900 ± 100 %
Tear Strength, ASTM D-624	60 ± 5 pli (10.5 ± 0.9 kNm)
Shrinkage	Negligible

1.07 MIXING

A. P-Tuff® Sealant JFR may NOT be diluted under any circumstance.
B. Pre-mix P-Tuff® Sealant JFR Side-B material before combining with Side-A. Note: 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.
D. Mix until a homogeneous mixture and color is obtained (at least 5 minutes).
E. Use care to scrape the sides of the container to ensure that no unmixed material remains.
F. 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
Apply using a caulking gun (hand pressure-type) or pour from the container. This material can be applied at environmental temperatures from 40°F (4.4°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.

2.02 FINISHING
After applying P-Tuff® Sealant JFR wait 36-48 hours, depending on temperature and humidity, before opening to traffic.

2.03 CLEAN-UP
Cured product may be disposed of without restriction. Mix excess Side- A and Side-B material and allow to cure. Check local, state and federal laws before disposing of material.

2.04 STORAGE
P-Tuff® Sealant JFR 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.

2.05 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.

WARNING: This product contains isocynates and curatives.

Coverage Rates - Linear Feet / Gallon

DEPTH OF JOINT \ WIDTH OF JOINT	1/4"	3/8"	1/2"	5/8"	3/4"	7/8"	1"
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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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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