RepSeal JFR – Airport Sealant

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TuffTex Materials
RESTORATION MADE EASY

Jet Fuel Resistant Expansion Joint Sealant
(SS-S-200-E, ASTM C920, Type M, Grade P, Class 100/50)

DESCRIPTION:
RepSeal JFR is a two component, Jet Fuel/Chemical Resistant, 1:1 ratio, self-leveling, polyurethane joint sealant. 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.

FEATURES:
- Conforms To Federal Specification SS-S-200E
- Rapid Cure & Self Leveling
- 1 Hour return to service
- 100% Solids, Highly Elastic, O VOC
- Meets VOC Regulations
- Self-Leveling & Non Toxic
- Remains Flexible, Even in Cold Temperatures

TYPICAL USES:
RepSeal JFR is used on interior or exterior horizontal concrete surfaces to repair random cracks and joints.
- Airport Runways
- Refuel Pits
- Bridge Headers
- Parking Aprons

COLOR:
Black or Gray

PACKAGING:
600-mL Cartridge = 36.61in³ (600 cm³)
10-gallon kit: 2- 5 gal pail (18.9 liters) Side-A and B
100-gallon kit: 2- 50 gal drum (189 liters) Side-A and B

SURFACE PREPARATION:
Allow concrete to cure 28 days before installation.
The concrete must be sound and free of all foreign material, including oil, grease, dust, laitance, or other surface contaminants. Concrete surfaces require a light sandpaper finish equal to or greater than an ICRI CSP #1-3. Surface preparation may be completed with the use of **TuffTex PrepEtch**. **(See PrepEtch Brochure)**
The use of primer is optional. If primer is required, **TMI** recommends the use of **RepPoxy PA** primer.
Polyethylene rod or polyurethane foam is recommended as a joint-filler and backup material.
Joint Design: Suitable for all properly designed joints following accepted engineering practices.

TECHNICAL DATA:
ASTM C-920, Type M, Grade P, Class 100/50, Use T
Meets SS-S-200E (section 4.4.12) Flame Test Requirements

MIXING:
RepSeal JFR may not be diluted under any circumstance. Premix **RepSeal JFR** Side-B material before combining with Side-A. Note: 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 attained (at least 3 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:
For smaller applications, apply using a caulking gun, hand pressure-type, or pour from 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 for best results.

For large applications, use the metered **AST GMP-025** continuous flow pump. Equipment usage and maintenance instructions as well as installation supervision is supplied **TMI** as the beginning of all projects. (See AST Equipment Guides)

FINISHING: After installing **RepSeal JFR** wait 1-2 hours, depending on temperature and humidity before open to traffic.

CLEAN-UP:
Clean all tools and equipment with **RepSolv-X** or **RepGreen**. Cured product is inert and 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.

STORAGE:
RepSeal JFR has a shelf life of 24 months from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C). Mix before using.

LIMITATIONS:
• Do not use in cracks, construction joints or control joints if surface is subject to thermal cycling.
• Discoloration can occur if exposed to extreme UV, however no change will occur in the physical properties.

PHYSICAL PROPERTIES:	
Specific Gravity	A-Side:1.02 + 0.1 B-Side:1.27 + 0.1
Viscosity at 80ºF (26°C)	A-Side: 2000 ± 300 cps B-Side: 3000 ± 300 cps
Mixed Viscosity, 70°F (21°C), cP	3,000 cps
Mixing Ratio by Volume	1:1 (1A:1B)
Application Equipment	1:1 AST-GMP-025 Meter Pump or Equivalent. Mix tube: 30-32 or equivalent
Solids Content ASTM D2369	100%
HM Pot Life @ 77ºF (25ºC) 50% RH	15-25 Minutes
HM Tack-Free Time @ 77ºF (25ºC) 50% RH	10-15 Minutes
Cure Time @ 75ºF (24ºF) 50% RH	48-72 Hours
Hardness ASTM D-2240	Shore A 15 ± 5
Tensile Strength ASTM D-412	400 ± 50 psi (2.7 ± 0.3 mPa)
Tear Strength ASTM D-624	60 ± 5 pli (10.5 ± 0.8 kN/m)
Elongation, ASTM D-412	1000 ± 100%
Concrete Adhesion C794 Primed with RepPoxy PA Unprimed	 25 pli 20 pli
Shrinkage	Negligible
Return to Service, 70°F (21°C), hour	1 Hour
VOC, lbs/gal (g/L), ASTM D 2369	0
Service Temperature, ° F (° C)	-30 to 170 (-34 - 77)
Application Temp ° F (° C)	40-100 (4-37)

WARRANTY:

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either **TuffTex Materials, Inc.,** or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.

DISCLAIMER:

Refer to the SDS sheet before use. The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of **TuffTex Materials, Inc**. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Published technical data and instructions are subject to change without notice. Contact your local **TuffTex Materials, Inc.** distributor or technical representative for additional technical data and instructions.

Coverage Rates (Linear Feet / Gallon

Width of Joint (in.)

Depth of Joint (in.)	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