

REVISION 04/11/18

## Product Description

Poly-Caulk® JF (Jet Fuel) is a two component, Jet Fuel/Chemical Resistant, 1:1 ratio, self-leveling polyurethane caulking sealant.

### FEATURES

- » Flexible
- » Non-Toxic
- » Remains Flexible, Even In Cold Temperatures
- » Conforms to Federal Specification SS-S-200E

### TYPICAL USES

Poly-Caulk® JF is used on interior / exterior horizontal concrete surfaces, to repair random cracks and joints.

- » Airports Runways                      » Bridge Headers
- » Parking Aprons

### 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 One 55 gallon drum (net 50 gallons or 189 liters) of Side-B

### Color

Black

### Coverage

Coverage's and yields shown do not include allowances for loss or waste and variations in job conditions. Each user must establish their own factors for loss from experience.

### Surface Preparation

Allow concrete to cure 28 days before installation.

All joints must be clean and dry prior to installing Poly-Caulk JF.

Remove all dust from the concrete pores prior to installing Poly-Caulk JF.

All joints must be absolutely clean.

All curing compounds, old caulks, grease, waterproofing compounds, etc., must be removed.

For non-porous surfaces such as metal, etc., clean to bright surface is recommended.

Polyethylene rod or polyurethane foam is recommended as a joint-filler and back-up material.

Joint Design: Suitable for all properly designed joints following accepted engineering practices. All surfaces must be primed with Polyprime 2180 or Polyprime EBF-LV.


### Mixing

Poly-Caulk® JF may not be diluted under any circumstance.

## TECHNICAL DATA (BASED ON DRAW DOWN FILM)

|  |                                |
|--|--------------------------------|
| <b>Mix Ratio by Volume</b>   | 1A : 1B                        |
| <b>Working Life at 75°F (24°C), 50% R.H.</b>                               | 30 ± 10 minutes                |
| <b>Tack Free Time at 77°F (25°C) ( Federal Specification SS-S-200E)</b>    | 12 hours                       |
| <b>Cure Time at 77°F (25°C), 50% R.H.</b>                                  | 48-72 hours                    |
| <b>Hardness, ASTM D-2240</b>   | 15 ± 5 Shore A                 |
| <b>Specific Gravity, Side-A</b>  | 1.02 ± 0.1                     |
| <b>Side-B</b>  | 1.27 ± 0.1                     |
| <b>Viscosity at 75°F (24°C) Side-A</b>                                     | 2000 ± 300 cps                 |
| <b>Side-B</b>  | 3000 ± 300 cps                 |
| <b>Tensile Strength, ASTM D-412</b>  | 400 ± 50 psi<br>2.7 ± 0.3 MPa  |
| <b>Elongation, ASTM D-412</b>  | 900 ± 10%                      |
| <b>Total Solids by Weight, ASTM D-2369 Side-A</b>                          | 95%                            |
| <b>Side-B</b>  | 100%                           |
| <b>Total Solids by Volume, ASTM D-2697 Side-A</b>                          | 96 ± 2%                        |
| <b>Side-B</b>  | 100 ± 2%                       |
| <b>Tear Strength, ASTM D-624</b>   | 60 ± 5 pli<br>10.5 ± 0.9 kNm   |
| <b>Shrinkage</b>   | Negligible                     |
| <b>Volatile Organic Compounds, (Parts A&amp;B Combined) ASTM D-2369-81</b> | <0.17 lbs/gal<br>< 20 gm/liter |

|                |      | 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 |



Pre-mix Poly-Caulk® JF 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 at low speed. Mix until a homogeneous mixture and color is achieved (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 air into the material as this may result in pinhole blisters and/or shortened pot life.

Do not mix in an up and down motion.

### **Application**

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.

### **Finishing**

Open to traffic once Poly-Caulk® JF has set.

### **Cleanup**

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

### **Storage**

Poly-Caulk® JF should be stored at room temperature, 60-95°F (15-35°C).

Poly-Caulk® JF has a shelf life of one (1) year from date of manufacture in original, factory-sealed containers when stored indoors at a temperature between 60-95°F (15-35°C).

### **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.**

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