



## VFI-5011 80A POLYUREA JOINT FILLER

### Overview

■ **Description**

VFI-5011 is a two component, rapid curing 1:1 ratio polyurea joint filler designed for traffic and freezer applications. It is self leveling, 100% solids and flexible, allowing 10-15% movement of installed joint width.

VFI-5011 is designed for medium to heavy duty industrial floor applications receiving vehicle and forklift traffic. VFI-5011 can be used in exterior applications, when minimal joint movement from thermal cycling will occur.

■ **Usage**

VFI-5011 is used to fill interior control joints or new construction saw joints on horizontal surfaces.

■ **Color**

Standard color for VFI-5011 is medium gray. Contact Volatile Free, Inc. for more information on custom colors.

### Physical Properties

■ **Hardness**

ASTM D-2240	
Shore A	75-80
Shore D	24-26

■ **Tensile Properties**

ASTM D-412	
Strength	846 psi
Elongation	69%
Elastic Modulus	1457 psi

■ **Tear Strength**

ASTM D-624	82 pli
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■ **Slant Shear Bond Strength**

ASTM C-882	400 psi
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### Liquid Component Properties

■ **Solids**

Weight:	100%
Volume:	100%

■ **Liquid Material Density & Specific Gravity**

"A" side	9.09 lbs/gal (SG 1.091g/ml)
"B" side	8.67 lbs/gal (SG 1.041g/ml)

■ **Coverage**

VFI-5011 300 x 300-ml cartridges will cover, when used with closed cell backer rod, approximately 17' of ¼" wide control joints. Bulk coverage will depend on size of joints. Contact VFI representative for further technical information on coverage.

■ **Toxicity**

Contains polyisocyanate that may be irritating to the skin and is toxic if inhaled as particulate matter. Material contacting the skin should be neutralized by washing with generous amounts of water. At elevated temperatures or when spraying use a fresh air respirator.

■ **Viscosity**

"A" side	886 cps @ 77°F
"B" side	692 cps @ 77°F

■ **Storage Stability or Shelf Life**

6 months in unopened containers at 60-90°F.

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## Application

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### ■ Procedure

Remove all debris, oil and/or other contamination from construction and saw joints. For best results re-cut joints with a dry diamond blade.

If area to be caulked is wet or damp, joint must be primed with VFI-1007 and allow to set 20-25 minutes.

Install closed cell backer rod at a depth of twice the width of the joint. Backer Rod must provide a release surface to only allow two sided adhesion. If the joints are exposed to extreme heavy duty loads we recommend full depth application of the product but still providing two sided adhesion. Applied material should be overfilled 5%.

Protection of the concrete surface is needed to prevent staining of new concrete by the joint material. Allow VFI-5011 to set for approximately 45 minutes then use a sharp 8" wall scraper to shave excess material from top of slab. Light weight oil on the blade will allow for easier shaving.

### ■ Equipment

VFI-5011 can be applied by dual cartridge static mix guns or low pressure plural component static mix equipment. Contact Volatile Free, Inc. for specific equipment recommendations.

### ■ Pot Life

Pot life of 100g mass is three minutes @ 72°F. Higher temperatures and larger quantities will shorten pot life. Lower temperatures and small quantities will lengthen pot life.

### ■ Cure Time

Allow 90 minutes @ 72°F before opening to traffic.

### ■ Clean Up

Wipe up any excess VFI-5011 from concrete and tools before it cures. Once VFI-5011 has cured use a sharp wall scraper to remove.

### ■ Tube Set Preparation

VFI-5011 should be applied using the following procedures: temperature of product needs to be above 75°F. Hand shake the tubes for 2-3 minutes and remove the red safety cap and white plug exposing the open tube. Attach the static mixer to the cartridge set. Secure the static mixer to the cartridge set by tightening the retaining nut. Load the cartridge set into the dual position caulk dispenser keeping the static mixer pointing up. Start to dispense the material while pointing up until any air bubbles are out of the cartridge then tip down and dispense the first 2-3 ounces of material in to a waste bucket then fill the joint. Available work time is approximately thirty to ninety seconds

### ■ Limitations

VFI-5011 is not intended for exterior or interior joints that are subject to high movement. VFI-5011 is a moisture sensitive product. Repair areas that are wet or damp must be primed. Contact Volatile Free, Inc. for high movement joint fillers and sealers.

### ■ Packaging

300 x 300 dual cartridges  
750 x 750 dual cartridges  
5 gallon pails  
15 gallon ponies  
55 gallon drums

For more information, contact us today at **800-307-9218**

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