

# Eco-PJF™

## Polyurea Joint Filler



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 800-553-8033 / www.tennantfloorcoatings.com  
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### DESCRIPTION:

Rapid setting, two-component polyurea polymer liquid with 100% solids content used to fill and protect joints from spalling in industrial concrete floors that are subject to hard wheels and heavy loads.

### USES:

- Saw-cut / Control / Contraction joints
- Construction joints
- Crack filler

### ADVANTAGES:

- Fast cure, short down time, ready to shave in 30 minutes
- Vehicle traffic in one hour
- No VOCs
- Seals joints to help prevent joint breakdown
- LEED credits may be available: Indoor Environmental Quality – 4.1 Low-Emitting Materials, Adhesives and Sealants

**STORAGE:** Materials must be stored indoors between 65°F (18°C) and 90°F (32°C). (If product is stored at temperatures lower than this, product will have a very high viscosity.) Store containers in warm 70°F (21°C) room over night for increased flow.

**SHELF LIFE:** Minimum one year from date of manufacture.

### PACKAGING OPTIONS / PART NUMBERS:

**Eco-PJF - Polyurea Joint Filler:**

	<u>10 gallons units</u>	<u>Cartridge 600 mL - Case of 12</u>
Clear/Natural	9012978	9012985
Dovetail Gray	9012981	9012986
Standard Gray	9012983	9012987

### Albion 300x300 Eco-PJF Application Gun

9012995

### OPTIONS:

Eco-PJF may be topcoated with any of the Tennant Coatings.

### LIMITATIONS:

**UV/Light Stability:** This product is not light stable and will yellow/amber over time. Do not use this product outdoors.

**Preparation:** If joint is not properly prepared, Eco-PJF will not adhere.

**New Concrete:** Floors should cure at least 30 days.

**Isolation Joints:** Cannot be filled with Eco-PJF.

### MATERIAL PROPERTIES:

Property	Test Method	Results
Percent Solids, <i>by wt</i>	ASTM D2369	A - 100 / B - 100
Volatile Organic Compound - VOC	ASTM D3960	Mixed A + B 0 lb/gal (0 g/L)
Gel Time		90 seconds
Shore A Hardness	ASTM D2240	86-90
Tensile Strength	ASTM D638	970 psi (6.69 MPa)
Tensile Elongation	ASTM D638	180%
Adhesion to Concrete	ASTM D4541	350-400 psi (2.41-2.76 MPa)

Results are based on conditions at 70°F (25°C)

### APPLICATION CHARACTERISTICS:

A gallon (3.78 litres) of polyurea will cover:

Coverage Rate, lineal joint <i>ft/gal</i>	35 (1/2" x 1") 150 (1/4" x 1/2") 610 (1/8" x 1/4")
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**IMPORTANT:**  
**READ AND FOLLOW ALL PRECAUTIONS AND INSTRUCTIONS BEFORE PROCEEDING.**

### PRELIMINARY FLOOR INSPECTIONS

**CHECK THE JOINTS:** Joints will need to be dry and free of dirt, debris, other joint materials, coatings, sealers, etc.

**CHECK THE TEMPERATURE:** Material will be most workable around 75°F (23.9°C). Floor temperature must be between 32°F (0°C) and 120°F (49°C). Note required conditions for Tennant coatings to be used along with Eco-PJF. **DO NOT** coat unless floor temperature is more than five degrees over the current, local dew point.

### APPLICATION EQUIPMENT

- Protective clothing
- 30-60 mesh silica sand to backfill joint
- Jiffy® Mixer Blade [Tennant Part No. 08643-5 (5 gal)]
- Slow speed drill (500 rpm or less)
- Static Mixing Tip #10-32
- Two-part pressurized meter pump, plural mix unit if using 10 gallon (37.8 litres) units
- 4" flat razor scraper

### PREPARATION

If surface dirt, grease, oil and contaminants are present, scrub with detergent and rinse with clean water to remove.

Ensure the joints are clean by running a saw equipped with a diamond blade set to the intended filler depth and vacuum to remove any debris. The saw blade should be run against both sides of the joint. Joint should be clean and dry.

The prepared joint should have a depth that is at least double the width. **NOTE:** A spalled joint will need to be cut wider, filled with Eco-PT™ 250 or Eco-HF™ 250 and recut before filling with the Eco-PJF.

### APPLYING THE JOINT FILLER

**COVERAGE RATE** will depend upon joint size. A 10 gallon kit will cover 400 lineal feet for a joint that is 1/2" wide by 1" deep.

**PREFILL** up to a 1/4" (6.35 mm) layer of silica sand to hold up Eco-PJF during cure and prevent adhesion to the bottom of the joint. The use of soft backer rod should NOT be used in saw-cut or control joints and is NOT recommended in construction joints as heavy traffic may compress and not provide proper support for the joint filler.

**PREMIX PART A (PIGMENTED)** prior to pouring into dispensing unit. Mix with a Jiffy® mixer for two minutes and until each part is uniform in color. Shake dual cartridge units vigorously to redistribute pigment. Pigments and resins in Part A can separate out.

**IF USING A PUMP, POUR PART A AND PART B** into a pressurized plural meter dispenser that is free of residual material. Set dispenser for a 1:1 mix ratio by volume. Purge the pump before attaching static mixing tip until equal flow rates of Part A and B are flowing out of the dispenser. Attach static mixing tip #13-32, 1/2" diameter, 32 element. Dispense a 1/2 cup of material into a waste container and until a uniform appearance is achieved.

**DISPENSE INTO JOINT AND FILL** to slight excess.

After 30 minutes and up to 4 hours after application, **SHAVE OFF EXCESS JOINT FILLER** with a flat 4" razor scraper. Note that underfilled joints will be glossy in appearance.

**POTLIFE: None**

**GEL TIME: 90 seconds**

**CLEAN UP PLURAL METERING DISPENSER** with xylene (followed by mineral oil). Purge line with mineral oil to remove all solvent residue. Fill lines with mineral oil to store.

**ALLOW TO DRY:** at 75°F (24°C)

30 minutes = light traffic

60-90 minutes = heavy traffic

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#### APPLICATION OF ADDITIONAL COATINGS

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Coat over Eco-PJF with any Tennant coating within 8 hours after material is placed and shaved off. If Eco-PJF is not shaved or cure time exceeds 8 hours, it should be thoroughly sanded with the appropriate grit paper.

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#### TECHNICAL SUPPORT

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For any preparation or application questions, please call Tennant technical support at 800-228-4943, option 4 (US & Canada), 800-832-8935 (International).

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#### DISPOSAL

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Dispose of all excess coatings, packaging and other waste in accordance with federal, state and local regulations.

**PLEASE SEE MATERIAL SAFETY DATA SHEET (MSDS) FOR SAFETY AND PRECAUTIONS.**

**USE PRODUCT AS DIRECTED.**

**KEEP OUT OF THE REACH OF CHILDREN.**

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#### MAINTENANCE GUIDELINES

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**Allow floor coating to cure at least one week before cleaning by mechanical means (e.g., sweeper, scrubber, disc machine).**

**Care:** Proper maintenance will increase the life and help maintain the appearance of your new Tennant floor coating. Sweep and scrub your new coating regularly, as dirt and dust are abrasive and can quickly dull the finish, decreasing the life of your coating. Remove spills quickly as certain chemicals may stain and could possibly permanently damage the finish.

**Use soft nylon brushes or white pads on your new floor coating. Any brush more abrasive than a soft nylon or white pad can cause premature loss of gloss.**

**Detergent:** Tennant has a full range of detergents--general purpose to heavy duty--for your cleaning needs. For assistance in determining which detergent is right for your facility or for additional technical information call: 800-228-4943, option 4 (US & Canada), 800-832-8935 (International).

**Caution:** Avoid scratching or gouging the surface. All floor coatings will scratch if heavy objects are dragged across the surface.

Do not drop heavy or pointed items on the floor as this may cause chipping or concrete popouts in the case of a weak cap.

Rubber tires can permanently stain the floor coating from plasticizer migration. Plexiglass® between the tire and the floor coating can prevent discoloration.

Rubber burns from quick stops and starts can heat the coating to its softening temperature, causing permanent marking.

**Repair:** Repair gouges or scratches or chip outs as soon as possible to prevent moisture or chemical contamination.

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#### CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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This warranty applies to all Specialty Surface Coatings, with the following exceptions: Eco-Hard-N-Seal™, Eco-EDP™ (Electrostatic Dissipative Primer), Eco-EDE™ (Electrostatic Dissipative Epoxy), and SDS™ (Static Dissipative System). These products have a separate warranty policy.

Tennant Company warrants its Specialty Surface Coatings to be free from defective manufacture, improper formulation, and defective ingredients. Warranty covers replacement of materials only.

**THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

In no event shall Tennant or Seller be liable for any incidental, consequential, or special damages arising out of the use of Tennant Specialty Surface Coatings. **THE ONLY LIABILITY OF TENNANT AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES, OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE) SHALL BE REPLACEMENT OF THE PRODUCT OR, AT THE ELECTION OF TENNANT OR SELLER, RETURN OF THE PURCHASE PRICE.**

**No representative of Tennant has authority to give any other warranty or assume other liability.**

The presence of a Tennant employee during the application of Tennant's Specialty Surface Coatings does not extend or alter the warranty or limitations in any manner whatsoever.