

Eco-PJF™

Polyurea Joint Filler



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.

- **LEED® CREDIT** – LEED Green Building Certification Program credits may be available:
 - **Indoor Environmental Quality**
 - 4.2 Low-Emitting Materials, Paint & Coatings

ENVIRONMENTALLY & USER FRIENDLY

- 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

PRIMARY APPLICATIONS

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

APPLICATION COVERAGE RATE

Coverage Rate, lineal joint ft/gal	35 (1/2" x 1") 150 (1/4" x 1/2") 610 (1/8" x 1/4")
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MATERIAL PROPERTIES (LIQUID)

Property	Test Method	Results
Percent Solids, by wt	ASTM D1475	A+B = 100
Volatile Organic Compound, VOC, lb/gal [g/L]	ASTM D3960	A+B = 0 [0]

CURED COATING PROPERTIES (DRY FILM)

Property	Test Method	Results
Adhesion to Concrete, psi [MPa]	ASTM D4541	350-400 [2.41-2.76]
Compressive Strength, psi [MPa]	ASTM D695	>15,000 [103.42]
Shore A Hardness	ASTM D2240	86-90
Tensile Elongation, %	ASTM D638	180
Tensile Strength, psi [MPa]	ASTM D638	970 [6.69]

Results are based on conditions at 77°F (25°C)

GENERAL PRODUCT INFORMATION

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

SHELF LIFE: One year from date of manufacture.

PACKAGING OPTIONS / PART NUMBERS:	10 gallons units	Cartridge 600 mL - Case of 12
Clear/Natural	9012978	9012985
Dovetail Gray	9012981	9012986
Standard Gray	9012983	9012987
Albion 300x300 Eco-PJF Application Gun		
9012995 (for use with cartridges only)		

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.

IMPORTANT: READ AND FOLLOW ALL PRECAUTIONS AND INSTRUCTIONS BEFORE PROCEEDING.

**PLEASE SEE SAFETY DATA SHEET (SDS) FOR HANDLING PROCEDURES.
USE PRODUCT AS DIRECTED.
KEEP OUT OF THE REACH OF CHILDREN.**

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	• Static Mixing Tip, ½" diameter, 32 element
• 30-60 mesh silica sand to backfill joint	• 4" flat razor scraper
• Jiffy® Mixer Blade [Tennant Part No. 08643-5 (5 gal)]	• Two-part pressurized meter pump, plural mix unit if using 10 gallon (37.8 litres) units
• Slow speed drill (500 rpm or less)	

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 and recut before filling with the Eco-PJF.*

APPLICATION

COVERAGE RATE will depend upon joint size. A 10 gallon (37.8 litres) 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, 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

APPLICATION OF ADDITIONAL COATINGS

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.

TECHNICAL SUPPORT

For any preparation or application questions, please call Tennant technical support at 800-228-4943, option 3 (US & Canada), 800-832-8935 (International).

DISPOSAL

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

MAINTENANCE GUIDELINES

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 3 (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 causing 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.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

Tennant offers a limited warranty on all products. Please see the Tennant Coatings Limited Product Warranty Statement on our website at www.tennantcoatings.com/warranty. Please contact the Tennant Coatings Technical Support team for additional questions at 800-228-4943, option 3 (US & Canada), 800-832-8935 (International).