

Eco-EJF™

Epoxy Joint Filler



DESCRIPTION – Eco-EJF is a two-component epoxy that cures to a semi-rigid, hard-rubber-like resiliency 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

- Can be topcoated with other Tennant products
- No VOCs
- Seals joints to help prevent joint breakdown

PRIMARY APPLICATIONS

Saw-cut / Control / Contraction Joints

APPLICATION COVERAGE RATE

Coverage Rate, lineal ft/gal / (lineal meter/litre)	150 (1/4" wide x 1/2" deep) / (45.72) (6.35 mm wide x 12.7 mm deep)
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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	300-350 [2.06-2.41]
Shore A Hardness	ASTM D2240	90-95
Tensile Elongation, %	ASTM D638	45-55
Tensile Strength, psi [MPa]	ASTM D638	1300 [8.96]

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, product 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:	Eco-EJF - 10 gallons units 9012988 = Clear/Natural 9012993 = Standard Gray 9012991 = Dovetail Gray
OPTIONS:	Tennant Eco-EJF may be topcoated with any of the Tennant Coatings.
LIMITATIONS:	<i>UV/Light Stability:</i> This product is not light stable and will yellow/amber over time. Do not use this product outdoors. <i>Preparation:</i> If joint is not properly prepared, Eco-EJF will not adhere. <i>New Concrete:</i> Floors should cure at least 30 days. <i>Construction & Isolation Joints:</i> Cannot be filled with Eco-EJF.

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 at least 40°F (4.4°C). Note required conditions for Tennant coatings to be used along with Eco-EJF. **DO NOT** coat unless floor temperature is more than five degrees over the current, local dew point.

APPLICATION EQUIPMENT

• Protective clothing	• Mixing container
• 30-60 mesh silica sand to backfill joint	• Caulking gun
• Jiffy® Mixer Blade [Tennant Part No. 08643-5 (5 gal)]	• Razor scraper
• 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 one-gallon (3.78 litres) mix will cover 150 lineal feet (45.72 lineal meters) for a joint that is 1/4" wide by 1/2" deep (6.35 mm wide x 12.7 mm deep).

PREFILL up to a 1/4" (6.35 mm) layer of silica sand to hold up Eco-EJF 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 5-GALLON PAIL (18.9 LITRES) PART A using a Jiffy® mixer blade and slow speed drill. Pour out 1/2-gallon (1.89 litres) into a measuring container. Then, pour the measured Part A into a mixing pail.

ADD ECO-EJF PART B (1/2-GALLON / 1.89 LITRES) TO PART A (1/2-GALLON / 1.89 LITRES). Pour out 1/2-gallon (1.89 litres) Part B into a measuring container that is separate from the one used with the Part A. Then, add the measured Part B to the Part A already in the mixing pail. **POTLIFE:** *Mix only enough material which can be applied within 15 minutes (time between the addition of Part B to Part A and the completion of all application actions). For smaller quantities, use 1 PART A to 1 PART B by volume.*

THOROUGHLY MIX EQUAL PORTIONS OF PART A AND PART B 3 MINUTES using a Jiffy® mixer blade and slow speed drill.

POUR THE MIXED MATERIAL using a caulking tube or other similar device, into the crevice or control/contraction joint to be filled. If the material is to be shaved flush, overfill the joint and:

ALLOW MATERIAL TO CURE 6-8 HOURS MINIMUM at 70°F (21°C).

SHAVE OFF EXCESS JOINT FILLER using a sharp, razor scraper. **NOTE:** If Eco-EJF is difficult to scrape, soften by applying a small amount of heat using a torch on heat gun.

AT 70°F (21°C), ALLOW TO DRY 6-8 HOURS before opening to light traffic and **8-12 HOURS** before opening to heavy traffic.

APPLICATION OF ADDITIONAL COATINGS

If Eco-EJF is not shaved, coat with any Tennant coating 4-12 hours at 70°F (21°C) after joints are filled.

If excess Eco-EJF is shaved off, coat joint material within 24 hours. If the recoat times are exceeded, thoroughly sand 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).