

# Eco-FLP-E



**Product:** Eco-FLP-E is a two component, liquid applied, solvenated epoxy-polyamine primer with unique penetrating characteristics. This primer is required for both the Eco-Flex and Tennant Flex Parking Deck Systems applied to bare concrete.

## Features:

Seals concrete	Low viscosity
Excellent adhesion	VOC = 100 g/L (0.83 lb/gal)

## TECHNICAL DATA

Coverage Rate	300 ft <sup>2</sup> per gallon (0.135 l/m <sup>2</sup> )
Pot Life, 75°F (24°C) @ 50% RH	60-90 minutes
Dry Film Thickness per Coat	4 mils
Specific Gravity	Part A = 1.30, Part B = 1.89
Total Solids, Weight (ASTM D-2369)	90 ± 2%
Total Solids, Volume (ASTM D-2697)	84 ± 2%
Viscosity, at 80°F (24°C)	Part A & B Combined = 1200 ± 200

## GENERAL PRODUCT INFORMATION

<b>STORAGE:</b>	Materials should be stored indoors between 65°F (18°C) and 90°F (32°C).
<b>SHELF LIFE:</b>	Six months from date of manufacture.
<b>PACKAGING OPTIONS / PART NUMBERS:</b>	<b>Eco-FLP™-E</b> A = 9013618 (5 gallons) B = 9013619 (5 gallons)
<b>LIMITATIONS:</b>	<b>CONCRETE:</b> <ol style="list-style-type: none"><li>1. This product is applied as part of a system and requires a base coat and at least one topcoat.</li><li>2. Concrete must exhibit 3000 psi minimum strength. Concrete surfaces to be coated must be free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function.</li><li>3. New concrete must be cured for 28 days.</li><li>4. Uncured materials are sensitive to heat and moisture.</li></ol>

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

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

### PRELIMINARY FLOOR INSPECTIONS

**CHECK THE TEMPERATURE:** Floor temperature and materials need to be above 50°F (10°C). **NOTE:** *Higher temperature application will yield shorter work times.*

**CHECK THE CONCRETE:** Concrete must be structurally sound and sloped for proper drainage. Tennant assumes no liability for substrate defects. If you suspect the concrete has been sealed or coated, call Tennant Company tech support for further instructions.

**CHECK FOR MOISTURE:** Concrete must be dry before application of this floor coating material. Concrete moisture testing must occur. Calcium chloride testing or in-situ relative humidity testing is recommended. Readings must be below 3 pounds per 1,000 ft<sup>2</sup> (1.5 kg per 92.9m<sup>2</sup>) over a 24-hour period on the calcium chloride test or below 75% relative internal concrete humidity. Test methods can be purchased at [www.astm.org](http://www.astm.org), see ASTM F1869 or F2170, respectively or follow manufacturer's instructions. If moisture issues are present, the use of Eco-MVS may be a consideration; see appropriate System Guide and/or call Tennant Company Technical Support for further instructions.

### APPLICATION EQUIPMENT

• Protective clothing	• 18-24" (457.2-609.6 mm) Flat rubber squeegee
• Spiked shoes	• Roller assembly (18")
• Jiffy® mixer blade [Tennant Part #08643-5 (large unit)]	• Medium (3/8") nap roller
• Slow speed drill (500 rpm or less)	• Paint Sprayer
• Paint (chip) Brushes	

**ASSEMBLE EQUIPMENT:** Due to the limited pot life of the material, all application equipment, etc. should be ready for immediate use. (Clean roller with tape to remove any residual lint.)

### SURFACE PREPARATION

- A. Surfaces shall be broom clean, dry, sound and free of voids, bugholes, rockpockets, honeycombs, protrusions, excessive roughness, foreign matter, frost, ice and other contaminants which may inhibit application or performance of the waterproofing coating system.
- B. If complete Eco-Flex system is to be installed, remove all existing coatings.
- C. Steel shot blast concrete to a profile CSP3-4 (International Concrete Repair Institute): Ensure complete removal of form release, curing compound, chemical retarders and other surface treatment, mortar smear, saw-cutting residue, mill scale, rust, loose material and other contaminants from surfaces.
- D. All previous concrete patches must be sound and inspected for acceptability prior to application of the coating. Unsound patches are to be replaced.
- E. Decks:
  1. Slope deck surfaces to drains that have flanges at coating level which are flush with deck surfaces.
  2. Rigidly install pipe, vents and other surface protrusions, properly flash them, and cover to prevent entry of coating materials.
  3. Metal flashings: Where metal flashings are substrate to waterproofing coating, set the flashings in continuous bedding bead of flexible joint sealant; install sealant S-bead between metal laps and mechanically fasten to substrate along leading edges at every 4" on center, staggered linearly, to lay flat without fishmouths.
  4. Joints: Configuration shall be consistent with this Section and with all other requirements of the Contract Documents.
  5. Check area of application to ensure that it conforms to the substrate requirements, as stated in the general guidelines section.

### REPAIRS

See Eco-Flex System Guide for repair instructions.

### APPLICATION - PRIMER - ECO-FLP-E

Prime surface with Eco-FLP™.

**COVERAGE RATE:** 300 ft<sup>2</sup>/gallon (27.87 m<sup>2</sup>/gallon).

**PREMIX PART A AND PART B** using a Jiffy® mixer blade and slow speed drill to ensure materials are homogeneous. **NOTE:** *Part A is dark green in color.*

**COMBINE AND MIX EQUAL AMOUNTS OF PART A & B** by volume. Use separate measuring containers and pour into a mixing pail. Mix only what can be applied in 30 min.

**NOTE:** Eco-FLP is very sensitive to heat and moisture. Higher temperatures and/or high humidity will significantly accelerate the cure time. Low temperatures and/or low humidity will extend the cure time.

**MIX FOR 2 MINUTES** using a Jiffy® mixer blade and slow speed drill. (Failure to do so could result in lower/diminished coating properties.) Pour into application tray.

**APPLY ECO-FLP** at the rate of 300 ft<sup>2</sup>/gallon (27.87 m<sup>2</sup>/3.78 litres) with an airless sprayer. DO NOT puddle material. For proper appearance and development of physical properties, it is crucial that material is not applied above or below this rate.

A 3/8 nap phenolic resin core roller may also be used. Dip the roller in the coating and lightly roll out excess in the application tray. Apply two 8-10 foot (2.4-3.0 meters) long paths on the concrete, making one stroke left to right and one right to left. Rewet the roller and apply two more paths adjacent to the first pair. Rewet roller and apply a third pair adjacent to the second.

**SPREAD THE MATERIAL** evenly with V-shaped cross passes.

**MAKE SURE THE FLOOR HAS JUST ENOUGH COATING TO COVER EVENLY.** Dry roll to remove any excess material. Excess material will cause the floor to dry unevenly and could cause the floor to blister, especially in high humidity. Insufficient material will cause the floor to look non-uniform.

**LEVEL THE AREA** with straight passes that cross the initial material paths.

**ALLOW ECO-FLP TO BECOME THUMBPRINT TACKY,** before proceeding to sealing/taping joints and Base Coat Application – Eco-FLB. Primer must be coated within 2-4 hours of becoming dry.

## TECHNICAL SUPPORT

For any preparation or application questions, please call Tennant technical support at 800-228-4943, option 4 (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 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 causing chipping or concrete popouts in the case of a weak cap.

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

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 REMEDY OF THE USER OR BUYER, AND 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.