



**PRODUCT PROFILE**

**GENERIC DESCRIPTION** Waterborne Epoxy-Amine Adduct

**COMMON USAGE** Formerly called Enviro-Tread. A low odor, rapid cure, wear-resistant coating for floors, walls and other substrates, capable of withstanding moderate commercial and industrial environments. It can withstand mild to moderate chemical and solvent exposures, as well as repeated cleaning. Can also be used as a primer or intermediate coat for thin film epoxy and urethane and acrylic systems.

**COLORS** Available in clear and the 16 standard StrataShield colors. Special colors available, please contact your Tnemec representative.

**FINISH** Semi-gloss

**COATING SYSTEM**

**SURFACER/FILLER/PATCHER** Series 63-1500, 130, 214, 218, 219. **Note:** A repair kit of 201, with Part C fumed silca, is available for small patching/surfacing repairs. For more extensive repairs and additional information, contact your Tnemec representative or Tnemec Technical Services.

**PRIMERS** **Concrete:** Self-priming or Series 201, 203, 205  
**CMU:** Self-priming over filled CMU  
**Steel:** 1, 25, L69, L69F, N69, N69F, 90-97, 94-H<sub>2</sub>O  
**Wood & Drywall:** Self-priming or Series 201, 203

**TOPCOATS** Series 73, 156, 157, 280, 290, 291, 294, 295, 297, 1074, 1075, 1080, 1081

**SURFACE PREPARATION**

Prepare surfaces by method suitable for exposure and service.

**HORIZONTAL CONCRETE** When self priming: Allow new concrete to cure 28 days. Verify dryness by testing for moisture with a "plastic film tape-down test." (Reference ASTM D 4263) Should moisture be detected, perform "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride." (Reference ASTM F 1869) Moisture content not to exceed three pounds per 1,000 sq ft in a 24 hour period. Acid-etch or mechanically abrade concrete to remove laitance and create profile. If acid-etching, no contaminants or surface additives/treatments such as form release agents, curing compounds, hardeners or sealers should be present in the surface of the concrete as they can impede the acid's ability to properly etch and profile the floor. If these conditions exist, mechanical preparation is the only recommended method to clean and profile the floor. Large voids and other cavities should be filled with recommended filler or surfacer. (Reference SSPC-SP13, ICRI CSP1-3) **Note:** Shotblasting will leave a much heavier profile than acid-etching. In this case it is recommended that a higher mil primer such as 201 be applied to help fill and smooth the surface profile of the floor.

**VERTICAL CONCRETE** When self priming: Allow new concrete to cure 28 days. Abrasive blast or mechanically abrade concrete to remove laitance, form release agents, curing compounds, hardeners, sealers and other contaminants and to provide surface profile. (Reference SSPC-SP13)

**CMU** When self priming: Allow new mortar to cure 28 days. Surfaces must be clean, dry, sound and free of all contaminants. Level all protrusions and mortar spatter. For pinhole free surface, use recommended surfacer/filler/patcher.

**ALL SURFACES** Must be clean, dry and free of oil, grease, curing compounds/sealers, hardeners and other contaminants. Application will tolerate residual dampness from surface preparation process but not puddled water, glistening concrete or inherently wet concrete.

**TECHNICAL DATA**

**VOLUME SOLIDS** 51.0 ± 2.0% (mixed) †

**RECOMMENDED DFT** **Horizontal:** 2.0 to 4.0 mils (50 to 100 microns) per coat. (Apply minimum of 2 coats to unpainted floors.)  
**Vertical:** 2.0 to 3.0 mils (50 to 75 microns) per coat.

**CURING TIME**

Temperature •	To Topcoat	To Place in Service
60°F (16°C)	6-7 hours	8-10 hours
75°F (24°C)	4-5 hours	7-8 hours
85°F (29°C)	1 1/2-3 hours	4-6 hours

• 50% relative humidity. Curing time varies with surface temperature, air movement, humidity and film thickness.

**VOLITILE ORGANIC COMPOUNDS**

**Unthinned:** 0.05 lbs/gallon (6 grams/litre)  
**Thinned 5% (Water):** 0.05 lbs/gallon (6 grams/litre) †

**THEORETICAL COVERAGE** 818 mil sq ft/gal (20.1 m<sup>2</sup>/L at 25 microns). See APPLICATION for coverage rates. †

**NUMBER OF COMPONENTS** Two: Part A and Part B (2 Parts A to 1 Part B by volume)

**MIXING RATIO** By volume: Two (Part A) to one (Part B)

**PACKAGING**

	PART A	PART B	Yield (mixed)
Large Kit	2-5 gallon pails	1-5 gallon pail	15 gallons
Small Kit	2-1 gallon cans	1-1 gallon can	3 gallons

**NET WEIGHT PER GALLON** 10.95 ± 0.25 lbs (4.97 ± .11 kg) (mixed) †

**STORAGE TEMPERATURE** Minimum 40°F (4°C) Maximum 110°F (43°C)  
 Protect from freezing.

**TEMPERATURE RESISTANCE** (Dry) Continuous 200°F (93°C) Intermittent 250°F (121°C)

# ENVIRO-POX® | SERIES 287

**SHelf LIFE** Part A & Part B: 12 months at recommended storage temperature.  
**FLASH POINT - SETA** Part A: >230°F (110°C) Part B: >230°F (110°C)  
**HEALTH & SAFETY** Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.  
**Keep out of the reach of children.**

## APPLICATION

**COVERAGE RATES** Before commencing, obtain and thoroughly read the StrataShield Installation and Application Guide for floors.

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m <sup>2</sup> /Gal)
Horizontal	2.0-4.0 (50-100)	4.0-8.0 (100-200)	205-409 (19.0-38.0)
Vertical	2.0-3.0 (50-75)	4.0-6.0 (100-150)	273-409 (25.3-38.0)

Allow for surface irregularities. Film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. †

**MIXING** Use a power mixer to stir contents of each container, making sure no pigment remains on the bottom. Slowly mix 2 Parts A component and while under agitation add 1 Part B component. Continue agitation until the two components are thoroughly mixed. *Important: Both components (Part A and Part B) must be above 55°F (13°C) prior to mixing.* Mixing ratio is two (Part A) to one (Part B) by volume.

**THINNING** Use clean tap water. Thin up to 5% or 1/4 pint (190 mL) per gallon.

**POT LIFE** 3 hours at 55°F (13°C) 1 hour at 75°F (24°C)  
 Material temperatures above 90°F (32°C) will significantly reduce the pot life.

**APPLICATION** Brush or roller, squeegee and air or airless spray.  
**Roller:** Use a 1/4" or 3/8" synthetic woven nap roller cover.  
**Brush:** Use good quality synthetic or nylon bristle brush.  
**Horizontal:** Squeegee and backroll. Brush small areas only.  
**Vertical:** Roll or spray and backroll. Brush small areas only.

### APPLICATION EQUIPMENT

#### Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA	E	704	5/16" (7.9 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	60-80 psi (4.1-5.5 bar)	10-20 psi (0.7-1.4 bar)

Low temperatures or longer hoses require higher pot pressure.

#### Airless Spray

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.015"-0.017" (380-430 microns)	3000-3600 psi (206-248 bar)	1/4" (6.4 mm)	60 mesh (250 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions. **Note:** Spraying should only be considered as means to transfer the material to the surface and should be followed by backrolling.

**SURFACE TEMPERATURE** Minimum 55°F (13°C) Maximum 110°F (43°C)  
 The surface should be at least 5°F (3°C) above the dew point.

**CLEANUP** Flush and clean all equipment immediately after use with soap and warm water.

† Values may vary with color.

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