



PRODUCT PROFILE

GENERIC DESCRIPTION	Waterborne Epoxy-Amine Adduct
COMMON USAGE	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. Note: Epoxies chalk and yellow with age, extended exposure to UV and artificial lighting. Caution should be taken when selecting white and light pastel colors. Lack of ventilation, incomplete mixing, miscatalyzation or the use of heaters that emit carbon dioxide and carbon monoxide during application and initial stages of curing may cause amine blush, possibly affecting adhesion of subsequent topcoats.
FINISH	Semi-gloss

COATING SYSTEM

SURFACER/FILLER/PATCHER	Series 130, 215, 218, 1254. Note: A repair kit of 201, with Part C fumed silica, 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 27WB, 201, 205, 208, 241 CMU: Self-priming over filled CMU Wood & Drywall: Self-priming or Series 201
TOPCOATS	Series 73, 280, 290, 291, 294, 295, 296, 297, 1074, 1075, 1080, 1081

SURFACE PREPARATION

HORIZONTAL CONCRETE	<p>Prepare surfaces by method suitable for exposure and service.</p> <p>Allow new poured-in-place concrete to cure a minimum of 28 days at 75°F (24°C). Verify concrete dryness in accordance with ASTM F 1869 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride" (moisture vapor transmission should not exceed three pounds per 1,000 square feet in a 24 hour period), F 2170 "Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes" (relative humidity should not exceed 80%), or D 4263 "Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method" (no moisture present). Note: The testing listed above cannot guarantee avoidance of future moisture related problems particularly with existing concrete slabs. This is especially true if the use of an under slab moisture vapor barrier cannot be confirmed or concrete contamination from oils, chemical spills, unreacted silicates, chlorides or Alkali Silica Reaction (ASR) is suspected.</p> <p>Prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Abrasive blast, shot-blast, water jet or mechanically abrade concrete surfaces to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide an ICRI-CSP 1-3 surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer. Note: For moisture content exceeding 3 lbs per 1,000 sq ft or relative humidity in excess of 80%, Series 208 or 241 may be substituted for the primer. Refer to the Series 208 or 241 product data sheet for more information.</p>
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.

VOLATILE 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 ² /L at 25 microns). See APPLICATION for coverage rates. †

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

PACKAGING	PART A	PART B	Yield (mixed)
Large Kit	2-5 gallon pails	1-5 gallon pail	15 gallons (56.8 L)
Small Kit	2-1 gallon cans	1-1 gallon can	3 gallons (11.4 L)

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

ENVIRO-POX® | SERIES 287

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)
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 ² /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 6.4 ounces (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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