

PRODUCT DATA SHEET ENVIRO-POX[®] SERIES 289

PRODUCT PROFILE	
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COMMON USAGE	Series 289 is a low ambering, advanced generation, breathable, waterborne epoxy with enhanced UV stability and resistance to yellowing. Series 289 is suitable for both wall and flooring applications and can be applied to green concrete. It has excellent resistance to chemical and solvent exposures and can be used as a primer, topcoat, or standalone sealer.
COLORS	Available in clear and in 16 StrataShield colors, special colors are available. Please contact your Themec representative for more information. Note: After mixing and during application, Series 289 will have a milky appearance, which will clear up gradually as the product cures. Once cured, this product will be clear in appearance or will reflect the color of the added pigment. 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 Special qualifications	Satin Series 289 meets the requirements of LEED-Low-Emitting Materials, Collaborative for High-Performance Schools-Paints & Coatings, WELL Building Standard-VOC Restrictions, and Living Building Challenge–Healthy Interior Performance. Contact your Themec representative for more information.
COATING SYSTEM	
SURFACER/FILLER/PATCHER	Series 130, 215, N218, 1254. Note: Series 211-0211 fumed silica can be added to 289 for small patching/surfacing repairs. For more extensive repairs and additional information, contact your Tnemec representative or Tnemec Technical Services.
PRIMERS	Concrete: Self-priming CMU: Self-priming over filled CMU Wall Board, Wood & Drywall: Self-priming, Series 151 Note: The following recoat times apply: Series 151, <i>2 months.</i>
TOPCOATS	Interior: 289, 247, 248, V290, V291, 296, 297.
	Important: To maintain a breathable system, Series 289 must be used throughout the entire coating system. An exception can be made when using the thin film topcoats listed.
SURFACE PREPARATION	
	Despars surfaces by method suitable for exposure and convige
HORIZONTAL CONCRETE	Allow new poured-in-place concrete to cure a minimum of 10 days at 75°F (24°C). Enviro-Pox may be installed on new concrete slab where high rates of moisture vapor transmission would prevent the use of non-breathing flooring systems. 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 15 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 95%). 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.
	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. Note: For best performance when using Series 289 as a primer, the target surface profile is a CSP3. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer.
VERTICAL CONCRETE	Allow new concrete to cure for 10 days at 75°F (24°C). Prepare concrete surfaces in accordance with NACE No. 6/SSPC- SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Abrasive 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. Note: For best performance when using Series 289 as a primer, the target surface profile is a CSP3. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer.
CMU	When self-priming: Allow new mortar to cure for 10 days. Surfaces must be clean, dry, sound, and free of all contaminants. Level all protrusions and mortar spatter. For pinhole-free surface, use the recommended surfacer/filler/patcher.
WALL BOARD, WOOD & DRYWALL	Must be clean, dry, and free of oil, grease, and other contaminants. Note: When using moisture-resistant and/or high- impact wall board or cement board in wet environments, utilize Series 215 and fiberglass tape or compound suitable for wet environments.
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	$64.0 \pm 2.0\%$ (mixed) †
RECOMMENDED DFT	Primer, Intermediate, or Topcoat: 2.0 to 12.0 mils (50-305 microns) per coat. Note: When applied as a clear finish, Series 289 must be applied at a maximum dry film thickness of 5 mils (125 microns) or less to ensure clarity of the product.

PRODUCT DATA SHEET

ENVIRO-POX® | SERIES 289

CURING TIME	Temperature •	То То	pcoat	To Place in Service		
	75°F (24°C)	7-8 hours ((minimum)	12-16 hours		
	 Based on 50% relative humid thickness. Application in high- Floor/Horizontal Application mechanically abraded before t surface temperature, air mover Wall/Vertical Applications: mechanically abraded before t surface temperature, air mover 	lity. Note: Curing time varies w humidity conditions may increa ons: If more than 72 hours have opcoating. All surfaces must be ment, humidity, and film thickne If more than six (6) months hav opcoating. All surfaces must be ment, humidity, and film thickne	ith surface temperature, air n se curing time. e elapsed between coats, the clean, dry and free of contar ess. re elapsed between coats, the clean, dry and free of contar ess.	novement, humidity, and film coated surface must be ninates. Curing time varies wi e coated surface must be ninates. Curing time varies wi		
TILE ORGANIC COMPOUNDS	0.08 lbs/gal (9.56 g/L)	, ,,				
THEORETICAL COVERAGE	1027 mil sq ft/gal (25.2 m ² /L at 25 microns). See APPLICATION for coverage rates. †					
NUMBER OF COMPONENTS	Two Part A (Amine) Part B (Epoxy)					
MIXING RATIO	By volume: 3 (Part A) to 1 (Pa	rt B)				
PACKAGING		Dort A	Dort D	Vield		
	Large Kit	3 5-gallon pails	1 5-gallon pail	20 gallons (75.7 L)		
	Small Kit	3.5 gallon pail (partially filled)	1 gallon pail	4 gallons (15.1 L)		
NET WEIGHT PER GALLON	13.75 ± 0.25 lbs (6.24 ± 0.11 kg) (mixed) †					
STORAGE TEMPERATURE	Minimum 40°F (4°C) Maximum 110°F (43°C) Protect from freezing					
TEMPERATURE RESISTANCE	(Drv) Continuous 200°F (93°C) Intermittent 250°F (121°C)				
SHELF LIFE	Part A: 12 months at recomm	ended temperature.				
	Part B: 12 months at recomm	ended temperature.				
SHELF LIFE	6 months					
FLASH POINT - SETA	>210°F (99°C)					
HEALTH & SAFETY	Satety Data Sheet for importan		phot to the use of this produ	ict.		
HEALTH & SAFETY	Keep out of the reach of ch	ildren.	х			
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HEALTH & SAFETY PLICATION COVERAGE RATES	Safety Data Sheet for importan Keep out of the reach of ch	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m²/Gal)		
HEALTH & SAFETY PLICATION COVERAGE RATES	Safety Data Sheet for importan Keep out of the reach of ch Suggested	Dry Mils (Microns) 4.0 (100)	Wet Mils (Microns) 6.5 (160)	Sq Ft/Gal (m²/Gal) 257 (23.8)		
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HEALTH & SAFETY PLICATION COVERAGE RATES MIXING THINNING POT LIFE APPLICATION APPLICATION EQUIPMENT SURFACE TEMPERATURE	Safety Data Sheef for importan Keep out of the reach of ch Suggested Minimum Clear Finish Coat Maximum Allow for surface irregularities the minimum or above the ma Use a power mixer to stir the components for 90 seconds be mixing until a uniform consiste F (13°C) prior to mixing. M Series 289 may be thinned up Series 289 may be thinned 20 45 minutes at 75°F (24°C) Material temperatures above 9 Brush or roller, squeegee, and Roller: Use a 1/4" or 3/8" syn Brush: Use good quality syntl Horizontal: Squeegee and ba Vertical: Roll or spray and ba Airless Spray Use appropriate tip/atomizing should only be considered as Minimum 50°F (10°C) Maxi The surface should be at least	Dry Mils (Microns) 4.0 (100) 2.0 (50) 12.0 (305) 5.0 (125) Film thickness is rounded to the train mine recommended dry film contents of each container. Add fore thinning. Scrape the sides ency is achieved. Important: He ixing ratio is three (Part A) to or to 10% per gallon. For airless spray is 0°F (32°C) will significantly reduce airless spray. Thetic woven nap roller cover. Thetic or nylon bristle brush. ckroll. Brush small areas only. Atomizing Pressure 2700-3600 psi (186-248 bar) pressure for equipment, application means to transfer the material to mum 110°F (43°C)	Wet Mils (Microns) 6.5 (160) 3.0 (80) 19.0 (475) 8.0 (200) ne nearest 0.5 mil or 5 micror thicknesses may adversely af Part B to Part A while mixin of the container. Thin with w Both components (Part A a ne (Part B) by volume. p water. When used a prime applications thin 10%. uce the pot life. Mat'l Hose ID 1/4" (6.4 mm) ator technique and weather container and should be for the surface a	Sq Ft/Gal (m²/Gal) 257 (23.8) 513 (47.7) 86 (7.9) 203 (18.9) ns. Application of coating beloffect coating performance. † g. Thoroughly mix the two rater while mixing. Continue nd Part B) must be above 5 r or sealer direct to concrete, Manifold Filter 60 mesh (250 microns) conditions. Note: Spraying followed by backrolling.		
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HEALTH & SAFETY PLICATION COVERAGE RATES MIXING THINNING POT LIFE APPLICATION APPLICATION EQUIPMENT SURFACE TEMPERATURE MATERIAL TEMPERATURE CLEANUP	Safety Data Sheet for importan Keep out of the reach of ch Suggested Minimum Maximum Clear Finish Coat Maximum Allow for surface irregularities the minimum or above the ma Use a power mixer to stir the ocomponents for 90 seconds be mixing until a uniform consiste F (13°C) prior to mixing. Misseries 289 may be thinned up Series 289 may be thinned 20 45 minutes at 75°F (24°C) Material temperatures above 9 Brush or roller, squeegee, and Roller: Use a 1/4° or 3/8" syn Brush: Use good quality synth Horizontal: Squeegee and ba Vertical: Roll or spray and ba Airless Spray Tip Orifice 0.015"-0.019" (380-485 microns) Use appropriate tip/atomizing should only be considered as Minimum 50°F (10°C) Maxi The surface should be at least Minimum 55°F (13°C), Maximum	Dry Mils (Microns) 4.0 (100) 2.0 (50) 12.0 (305) 5.0 (125) Film thickness is rounded to this iximum recommended dry film contents of each container. Add effore thinning. Scrape the sides ency is achieved. Important: B ixing ratio is three (Part A) to or to 10% per gallon with clean ta % per gallon. For airless spray: 0°F (32°C) will significantly reduariless spray. thetic woven nap roller cover. hetic or nylon bristle brush. ckroll. Brush small areas only. fressure for equipment, applicant	Wet Mils (Microns) 6.5 (160) 3.0 (80) 19.0 (475) 8.0 (200) he nearest 0.5 mil or 5 micron thicknesses may adversely af Part B to Part A while mixin of the container. Thin with w soft components (Part A an ne (Part B) by volume. p water. When used a prime applications thin 10%. uce the pot life. Mat'l Hose ID 1/4" (6.4 mm) ator technique and weather co the surface and should be f nould be at least 5°F (3°C) ab p and warm water.	Sq Ft/Gal (m²/Gal) 257 (23.8) 513 (47.7) 86 (7.9) 203 (18.9) ns. Application of coating belofect coating performance. † gr. Thoroughly mix the two rater while mixing. Continue and Part B) must be above 5 r or sealer direct to concrete, 60 mesh (250 microns) conditions. Note: Spraying followed by backrolling. ove the dew point.		

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PRODUCT DATA SHEET

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