

SURFACING EPOXY SERIES 215

PRODUCT DATA SHEET

PRODUCT PROFILE						
GENERIC DESCRIPTION COMMON USAGE COLORS FINISH	Modified Polyamine Epoxy An advanced generation, 100% s patching and filling voids and b epoxies and polyurethanes for u 1200 White, 1212 Gray Semi-Gloss	solids epoxy filler and surfac ugholes in concrete substrate ise in mild to aggressive exp	er for concrete or steel. Excell es. Generally topcoated with a osures.	ent material for surfacing, variety of high performance		
SPECIAL QUALIFICATIONS	Certified by NSF International in accordance with NSF/ANSI Std. 61. Ambient air cured Series 215 is qualified for us on the interior of potable water storage tanks and reservoirs of 200 gallons (757 L) capacity or greater at 80 mils DFT or 95 mils DFT with fiberglass mat (Fiberglass Mat Product No. S211-0215). Return to immersion time is seven days. Contact your Tnemec representative for approved systems and additional information on potential uses.					
COATING SYSTEM						
SURFACER/FILLER/PATCHER PRIMERS	Self-patching or Series 217, 218 Steel: Self-priming, Series 1, 20, H91-H ₂ O, 94-H ₂ O, L140, L140F, Concrete: Self-priming, Series 2 V140F, 161, 201. Note: Primers outgassing. Note: For potable w membrane mat lay-up system, p CMU & Cement Board: Self-pp fiberplass mat product number 8	FC20, 22, 27WB, 66, L69, L6 N140, N140F, V140, V140F, 0, FC20, 22, 27WB, 66, L69, may be necessary on some a rater mat lay-up system, use lease reference the Series 21 iming. Can also be used as a 273-0273C.	9F, N69, N69F, V69, V69F, 90- 161, 201, 394 L69F, N69, N69F, V69, V69F, I pplications to minimize or eli fiberglass mat product numbe 5ML product data sheet. bedding coat for Series 273 S	97, H90-97, 90G-1K97, 91-H ₂ O, 140, L140F, N140, N140F, V140, minate the potential for r S211-0215. For filtration stranlok ML system, use		
TOPCOATS	Notergiass mat product number 52/5-02/5C. Series 20, FC20, 22, FC22, 27WB, 61, 66, L69, L69F, N69, N69F, V69, V69F, 104, 113, 114, 120-5002, L140, L140F, N140, N140F, V140, V140F, 141, 161, 201, 210, 237SC, 239SC, 251SC, 262, 264, 270, 273, 280, 281, 282, 287, 406, 431, 434, 435, 436, 446. Note: Maximum recoat time for Series 406 is 72 hours.					
SURFACE PREPARATION						
STEEL	Non-Immersion Service: SSPC	S-SP6/NACE 3 Commercial Bl	ast Cleaning with a minimum	3.0 mil angular anchor profile.		
CONCRETE	Allow new cast-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). Prepare concrete suffaces 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 a minimum ICRI-CSP 5 surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler					
CMU All surfaces	Allow mortar to cure for 14 days Must be clean, dry and free of c	s. Level protrusions and mor il, grease, chalk and other co	tar spatter. ontaminants.			
TECHNICAL DATA						
VOLUME SOLIDS RECOMMENDED DFT	100% (mixed) † Resurfacer: 1/32" to 1/8" (0.8 r Up to 2" with the addition of Se imperfections found in formed o mat lay up is typically in the 1/1	nm to 3.2 mm) ries 211 (see Mixing instructi concrete surfaces. Larger imp .6" range.	ons) for filling honeycombs, b erfections may require multipl	olow holes and surface le applications. Bedding coat for		
CORING TIME	Temperature	To Touch	Dry Through	Maximum to Recoat ‡		
	95°F (35°C)	4 hours	12 hours	14 days		
	75°F (24°C)	10 hours	24 hours	21 days		
	55°F (13°C)	18 hours	48 hours	21 days		
	45°F (7°C)	24 hours	72 hours	21 days		
	35°F (2°C) ‡ Note: If the Series 215 surface Note: Use "To Touch" cure info Through" if succeeding topcoats	32 hours e is exterior exposed for mor rmation for minimum recoat are applied by roller brush	96 hours e than seven days, scarification times if succeeding topcoats a or trowel.	21 days n is required before topcoating. ure spray-applied and "Dry		
OLATILE ORGANIC COMPOUNDS	Unthinned: 0.08 lbs/gal solids	(10 grams/litre) †	,			
HAPS	Unthinned: 0.0 lbs/gal solids					
THEORETICAL COVERAGE NUMBER OF COMPONENTS	1,604 mil sq ft/gal (39.4 m²/L at Two: Part A and Part B (1 Part A	25 microns). See APPLICATI A to 1 Part B by volume)	ON for coverage rates. †			

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SURFACING EPOXY | SERIES 215

			PART A		PART B	Wh	en Mixed	
	Large	Kit	3 gal. pail (partia	l fill) <u>5</u> g	ıl. pail (partial fill)	4 ga	llons (15L)	
	Small	Kit	1 gallon can	<u>3 g</u>	ıl. pail (partial fill)	2 ga	llons (7.5L)	
	Touch-U	p Kit	1 quart can		1 quart can	1/2 ga	ullon (1.89L)	
NET WEIGHT PER GALLON	13.28 ± 0.25 lbs ($(6.02 \pm .11 \text{ kg}) \text{ (m}$	ixed) †					
STORAGE TEMPERATURE	Minimum 20°F (- Prior to application material be store	6°C) Maximum on, the material te d at these temper	n 110°F (43°C) emperature should atures at least 48 l	l be between 70°F nours prior to use.	and 80°F (21°C a	nd 27°C). It is su	ggested the	
TEMPERATURE RESISTANCE	(Dry) Continuous	s 250°F (121°C)	Intermittent 275°	PF (135°C)				
SHELF LIFE	12 months at recommended storage temperature.							
FLASH POINT - SETA	Part A and Part H	3: N/A						
HEALTH & SAFETY	This product con Safety Data Shee Keep out of the	tains chemical ing t for important he reach of childr	gredients which ar alth and safety inf en.	e considered haza ormation prior to	rdous. Read conta the use of this pro	ainer label warnir oduct.	ng and Materia	
PLICATION								
COVERAGE RATES	†							
	Thickness			Large Kit		Small Kit		
	1/32	2" (31 mils)		207 sq ft (19.2 m ²)		103 sq ft (9.6 m ²)		
	1/10	6" (62 mils)		103 sq ft (9.6 m ²)		52 sq ft (4.8 m ²)		
	1/8" (125 mils)			51 sq ft (4.8 m ²)		26 sq ft (2.4 m ²)		
	1/2"	(500 mils)		13 sq ft (1.2 m ²)		6 sq ft (0.6 m ²)		
MIXING	Mix the entire contents of Part A and Part B separately. Scrape all of the Part A material from the pail and into the Part F container by using a flexible spatula. Use a variable speed drill with a PS Jiffy blade and mix the blended components fa a minimum of two minutes. Apply the mixed material within the pot life limits after agitation. Note: Themec Series 211-0211 fumed silica may be added at 0.75:1 by volume per mixed gallon where a thicker consistency is required to achiev the desired application and film build properties. Mix with Part A as directed in Mixing Instructions. Multiple lifts may be required. A large volume of material will gel quickly if not applied or reduced in volume.							
TUINNING	Normally pot roo	uirad	асспан. Ан схрі	osion nazaru ma	ly be created.			
	Normally not req	luired.	0.007 (0.0					
PUI LIFE	45 minutes at 70	<u> </u>		12.13				
	Material tempera	tures above 90°F	(32°C) will signific	cantly reduce the	pot life.			
APPLICATION EQUIPMENT	Material tempera Mortar hawk, tro spray texture gur Spray Applicati	tures above 90°F wels, broad knive n equipment.	(32°C) will signific s and rubber float	c) cantly reduce the j s are recommend	oot life. ed. Series 215 can	also be spray tra	nsferred using	
APPLICATION EQUIPMENT	Material tempera Mortar hawk, tro spray texture gur Spray Applicati Pump	wels, broad knive a equipment.	(32°C) will signific s and rubber float Spray Gun	(C) cantly reduce the stare recommend Fluid Tips	oot life. ed. Series 215 can Fluid Pressure	also be spray tra Atomizing Pressure	nsferred using Hopper	
APPLICATION EQUIPMENT	Material tempera Mortar hawk, tro spray texture gur Spray Applicati Pump WIWA 410 9:1 Ratio	vels, broad knive n equipment. Fluid Line 25' 1" Diameter 10' 3/4" Diameter	(32°C) will signific s and rubber float Spray Gun WIWA Pole Gun	Fluid Tips	oot life. ed. Series 215 can Fluid Pressure 180 to 360 psi (Adjust as necessary)	also be spray tra Atomizing Pressure Adjust at gun for proper atomization	nsferred using Hopper 6.5 Gallor Stainless Sta	
APPLICATION EQUIPMENT	Material tempera Mortar hawk, tro spray texture gur Spray Applicati Pump WIWA 410 9:1 Ratio Graco 45:1, 56:1, X50, X60	vels, broad knive n equipment. Fluid Line 25' 1" Diameter 10' 3/4" Diameter 3/8" to 1/2" I.D.	(32°C) will signific s and rubber float Spray Gun WIWA Pole Gun XTR-7	C) cantly reduce the particular state recommend Fluid Tips 1/4" to 3/8" 0.031"-0.041"	ed. Series 215 can Fluid Pressure 180 to 360 psi (Adjust as necessary) 3500-4500 psi	also be spray tra Atomizing Pressure Adjust at gun for proper atomization N/A	Hopper 6.5 Gallon Stainless Ste 6.5 Gallon Stainless Ste	
APPLICATION EQUIPMENT	Material tempera Mortar hawk, tro spray texture gur Spray Applicati Pump WIWA 410 9:1 Ratio Graco 45:1, 56:1, X50, X60 Graco M680 10:1 Ratio	 P (21 c) 29 million P (21 c) 20 million P (21 c	Spray Gun WIWA Pole Gun XTR-7 Flex Hose	Fluid Tips 1/4" to 3/8" 0.031"-0.041" No. 5 Nozzle	ed. Series 215 can Fluid Pressure 180 to 360 psi (Adjust as necessary) 3500-4500 psi 200 psi (Adjust as necessary)	also be spray tra Atomizing Pressure Adjust at gun for proper atomization N/A Adjust at gun for proper atomization	Hopper 6.5 Gallon Stainless Ste 10 Gallon Stainless Ste	
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APPLICATION EQUIPMENT	Material tempera Mortar hawk, tro spray texture gur Spray Applicati Pump WIWA 410 9:1 Ratio Graco 45:1, 56:1, X50, X60 Graco 45:0, X60 0:1 Ratio Graco M680 10:1 Ratio Cart mounted 9:1 with drain valve requirements 80	 P (21 c) 2 9 minutes above 90°F wels, broad knives a equipment. an Equipment. an Equipment. an Equipment. 25' 1" Diameter 10' 3/4" Diameter 3/8" to 1/2" I.D. 25' 1" Diameter 10' 3/4" Diameter 25' 1" Diameter 10' 3/4" Diameter 25' 1" Diameter 10' 3/4" Diameter and control air ho CFM at 100 psi. A 	Spray Gun Spray Gun WIWA Pole Gun XTR-7 Flex Hose HTX d pump with air for seasembly. Refetor tomization air n	Fluid Tips Fluid Tips 1/4" to 3/8" 0.031"-0.041" No. 5 Nozzle 4C Fine Finish filter, regulator and re to the operation nust be dry, the	ed. Series 215 can Fluid Pressure 180 to 360 psi (Adjust as necessary) 3500-4500 psi 200 psi (Adjust as necessary) 250 psi (Adjust as necessary) 1 lubricator, air co manual for applic use of an after c	also be spray tra Atomizing Pressure Adjust at gun for proper atomization N/A Adjust at gun for proper atomization Adjust at gun for proper atomization ntrol manifold, fi cation instruction: ooler is recomm	nsferred using Hopper 6.5 Gallon Stainless Ste 0.5 Gallon Stainless Ste 10 Gallon Stainless Ste 10 Gallon Stainless Ste uid outlet drai s. Air eended.	
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