

POTA-POX[®] PLUS N140 or V140

PRODUCT PROFILE GENERIC DESCRIPTION Polyamidoamine Epoxy COMMON USAGE Innovative potable water coating which offers high-build edge protection and allows for application at a wide range of temperatures (down to 35°F or 2°C with 44-700 Accelerator). For use on the interior and exterior of steel or concrete tanks, reservoirs, pipes, valves, pumps and equipment in potable water service. Note: Series V140 conforms with air pollution regulations limiting Volatile Organic Compounds (VOC) to a maximum of 250 grams/litre (2.08 lbs/gal). In areas requiring less than 100 grams/litre VOC, please refer to the Series L140 data sheet. COLORS 1211 Red Oxide, 1255 Beige, 11WH White, 15BL Tank White, 35GR Black and 39BL Delft Blue. Note: Epoxies chalk with extended exposure to sunlight. 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 yellowing to occur SPECIAL QUALIFICATIONS Certified by NSF International in accordance with ANSI/NSF Std. 61. Ambient air cured Series N140 (with or without 44-Certified by **NSF international** in accordance with **ANSI/NSF std. 01**. Ambient air cured Series N140 (with or without 44-700 Epoxy Accelerator) is qualified for use on tanks and reservoirs of 1,000 gallons (3,785L) capacity or greater, pipes 14 inches (30 cm) in diameter or greater and valves two (2) inches (5 cm) in diameter or greater. Series V140 is qualified for use on tanks of 20,000 gallons (75,708L) capacity or greater and valves 3/4 inch in diameter or greater. Note: NSF certification for Series V140 applies to colors 1255 Beige, 1211 Red and 15BL Tank White only. Conforms to **AWWA D 102 Inside Systems No. 1 and No. 2** (with or without 44-700). Conforms to **AWWA C 210** (without 44-700). Contact your Themeer representative for systems and additional information. A two-coat system at 4,0-6,0 dry mils (100-150 dry microns) per coat passes the performance requirements of MIL-PRF-4556F for fuel storage. Reference the "Search Listings" section of the NSF website at www.nsf.org for details on the maximum allowable DFT. PERFORMANCE CRITERIA Extensive test data available. Contact your Tnemec representative for specific test results. **COATING SYSTEM** PRIMERS Self-priming, 20, FC20, 22, 91-H2O, 94-H2O, L140, L140F, N140F, V140, V140F Interior: Series 20, FC20, 22, L140, L140F, N140F, V140, V140F. Exterior: Series 20, FC20, 22, L140, L140F, N140F, V140, V140F. Exterior: Series 27, 66, L69, L69F, N69, N69F, V69, V69F, 73, L140, L140F, N140, N140F, V140, V140F, 161, 180, 700, 701, 1074, 1074, 1075, 1075U, 1080, 1081. Refer to COLORS on applicable topcoat data sheets for additional information. Note: When topcoating with Series 700, an intermediate coat of Series 73 or 1075 is required. Note: The following recoat times apply for Series N140: Immersion Service—Surface must be scarified after 60 days. Atmospheric Service—After 60 days, scarification or an epoxy tie-coat is required. Contact your Tnemec representative for specific recommendations. TOPCOATS SURFACE PREPARATION **Immersion Service:** Scarify the Series N140, 20 or FC20 prime coat surface by blasting with fine abrasive before topcoating if it has been exterior exposed for 60 days or longer and N140 is the specified topcoat. PRIMED STEEL STEEL Immersion Service: SSPC-SP10/NACE 2 Near-White Blast Cleaning with a minimum angular anchor profile of 1.5 mils. Non-Immersion Service: SSPC-SP6/NACE 3 Commercial Blast Cleaning with a minimum angular anchor profile of 1.5 mils. **CAST/DUCTILE IRON** Contact your Tnemec representative or Tnemec Technical Services. CONCRETE Allow new concrete to cure 28 days. For optimum results and/or immersion service, abrasive blast referencing SSPC-SP13/NACE 6, ICRI-CSP 2-4 Surface Preparation of Concrete and Tnemec's Surface Preparation and Application Guide. Fill all holes, pits, voids and cracks with 63-1500, 215 or 218. ALL SURFACES Must be clean, dry and free of oil, grease and other contaminants. **TECHNICAL DATA** 67.0 ± 2.0% (mixed—A, B & 44-700 Epoxy Accelerator) † **VOLUME SOLIDS** 2.0 to 10.0 mils (50 to 225 microns) per coat. **Note:** MIL-PRF-4556F applications require two coats at 4.0-6.0 mils (100-150 microns) per coat. Otherwise, the number of coats and thickness requirements will vary with substrate, application method and exposure. Contact your Tnemec representative. **RECOMMENDED DFT CURING TIME AT 5 MILS DFT** Without 44-700 Accelerator To Handle To Recoat Temperature 75°F (24°C) 6 hours 9 hours With 44-700 Accelerator: Temperature To Handle To Recoat 75°F (24°C) 4 hours 5 hours 65°F (18°C) 7-8 hours 9-11 hours 55°F (13°C) 12-14 hours 16-20 hours 45°F (7°C) 18-22 hours 28-32 hours 35°F (2°C) 28-32 hours 46-50 hours Curing time varies with surface temperature, air movement, humidity and film thickness.

Note: For valve applications allow 14 days cure at $75^{\circ}F(24^{\circ}C)$ prior to immersion. For pipe applications allow 30 days cure at $75^{\circ}F(24^{\circ}C)$ prior to immersion. **Ventilation:** When used in enclosed areas, provide adequate ventilation during application and cure. **VOLATILE ORGANIC COMPOUNDS** Thinned 5% (#60): 2.6 lbs/gallon (311 grams/litre) N140: Unthinned: 2.4 lbs/gallon (285 grams/litre) Thinned 10% (#4): 2.8 lbs/gallon (334 grams/litre) V140: Unthinned: 1.95 lbs/gallon (234 grams/litre) Thinned 2.5% (#4): 2.08 lbs/gallon (250 grams/litre) †

Published technical data and instructions are subject to change without notice. The online catalog at www.tnemec.com should be referenced for the most current technical data and instructions or you may contact your Tnemec representative for current technical data and instructions.

Immersion

7 days

Immersion

7 days

8 days

9-10 days

12-13 days

16-18 days

PRODUCT DATA SHEET

POTA-POX® PLUS | N140 or V140

INCORENCES COVERAGE	1,070 mil sq ft/gal (27.2 m²/L at 25 microns). See APPLICATION for coverage rates. †						
NUMBER OF COMPONENTS	Two: Part A (amine) and Part B (epoxy) or Three: Part A, Part B and 44-700 Epoxy Accelerator						
PACKAGING	5 gallon (18.9L) pails and 1 gallon (3.79L) cans - Order in multiples of 2. Reference 44-700 Epoxy Accelerator product data sheet for its packaging information.						
NET WEIGHT PER GALLON	N140: 12.66 \pm 0.25 lbs (5.82 \pm .11 kg) (mixed) V140: 13.00 \pm 0.25 lbs (5.90 \pm .11 kg) (mixed) \dagger						
STORAGE TEMPERATURE	Minimum 20°F (-7°C) Maximum 110°F (43°C)						
TEMPERATURE RESISTANCE	(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)						
SHELF LIFE	24 months at recommended storage temperature.						
FLASH POINT - SETA	N140 & V140 Part	: A: 82°F (28°	C) N140 Part B: 80	°F (27°C) V14) Part B: 86°F (30°C	C) 44-700: Nor	ne
HEALTH & SAFETY	Paint products con Safety Data Sheet Keep out of reach	ntain chemica for important 1 of children.	ll ingredients which a t health and safety inf	re considered ha formation prior to	zardous. Read cont the use of this pro	ainer label warni oduct.	ng and Material
APPLICATION							
COVERAGE RATES			Dry Mils (Micro	ons) W	7et Mils (Microns)	Sq Ft/	Gal (m²/Gal)
	Suggest	ted	6.0 (150)		9.0 (230)	1	79 (16.6)
	Minimum		2.0 (50)		3.0 (75)	537 (49.9)	
	Maximum		10.0 (225)		15.0 (375)	107 (10.0)	
	and surface irregularities. Wet film thickness is rounded to the nearest 0.5 millior 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. Reference the "Search Listings" section of the NSF website at www.nsf.org for details on the maximum allowable DFT. †						
THINNING	 Add tour (4) fluid ounces of 44-700 per gallon of Part A while Part A is under agitation. 4. Add Part A to Part B under agitation, stir until thoroughly mixed. 5. Both components must be above 50°F (10°C) prior to mixing. For application of the unaccelerated version to surfaces between 50°F to 60°F (10°C to 16°C) or the accelerated version to surfaces between 35°F to 50°F (2°C to 10°C), allow mixed material to stand 30 minutes and restir before using. 6. For optimum application properties, the material temperature should be above 60°F (16°C). Note: The use of more than the recommended amount of 44-700 will adversely affect performance. Use No. 4 or No. 60 Thinner for N140. Use No. 4 Thinner for V140. For air spray, thin up to 10% or 3/4 pint (380 mL) per callon with No. 4 Thinner or thin up to 5% or 14 pint (100 mL) per callon with No. 6 Thinner for the soft. For soften with No. 4 Thinner for the soften callor callor callor prove the soften callor callor with No. 4 Thinner for 140 pint (100 mL) per callon with No. 4 Thinner for the soften callor callor callor callor callor callor with No. 4 Thinner for the soften callor callor callor provide the soften callor callor callor with No. 4 Thinner for the soften callor callor callor with No. 4 Thinner for the soften callor callor callor with No. 4 to the soften callor callor						
POT LIFE	spray, roller or br thinning with No. on thinning with N Series V140, a ma Without 44-700	ush, thin up t 4 or No. 60 7 No. 4 Thinner ximum of 2.5 15 hours at	In ap to 3% of $1/4$ pint (19) o 5% of $1/4$ pint (19) Thinner for tanks and r only. Use of any oth % of No. 4 Thinner n $50^{\circ}F$ (10°C) 5 hou	only No. 60 Thin er thinner voids hay be used to co rs at $77^{\circ}F(25^{\circ}C)$	Caution: Series N14 mer for pipe. Serie ANSI/NSF Std. 61 c mply with VOC res 3 hours at 100°F	40 NSF certification s V140 NSF certification. Note gulations.	ication is based When using
APPLICATION EQUIPMENT	Air Spray	nours at 35°F	$(2^{\circ}C)$ 4 hours at /	7°F (25°C) 1 r	iour at 100°F (38°C)	
	Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
	DeVilbiss JGA	Е	765 or 704	5/16" or 3/8"	3/8" or 1/2"	75-100 psi	
				(7.9 01 9.3 mm)	(9.5 or 12.7 mm)	(5.2-6.9 bar)	10-20 psi (0.7-1.4 bar)
	Low temperatures	s or longer ho	ses require higher po	t pressure.	(9.5 or 12.7 mm)	(5.2-6.9 bar)	10-20 psi (0.7-1.4 bar)
	Low temperatures Airless Spray The Orif	s or longer ho	Atomizing Prog	t pressure.	(9.5 or 12.7 mm)	(5.2-6.9 bar)	10-20 psi (0.7-1.4 bar)
	Low temperatures Airless Spray Tip Orifi	s or longer ho	Atomizing Press	t pressure.	(9.5 or 12.7 mm) Mat'l Hose ID	(5.2-6.9 bar)	10-20 psi (0.7-1.4 bar) ifold Filter
	Low temperatures Airless Spray Tip Orifi 0.015"-0.0 (380-485 mi	s or longer ho ice 019" crons)	Atomizing Press 3000-4800 ps (207-330 bar)	ot pressure.	(9.5 or 12.7 mm) Mat'l Hose ID 1/4" or 3/8" (6.4 or 9.5 mm)	(5.2-6.9 bar)	10-20 psi (0.7-1.4 bar) ifold Filter i0 mesh 0 microns)
	Low temperatures Airless Spray Tip Orif 0.015"-0.1 (380-485 mi Use appropriate ti Roller: Roller appi 12.7 mm) syntheti Brush: Recommer	ice ice 019" crons) ip/atomizing j lication option ic woven nap uded for small	Atomizing Press 3000-4800 ps (207-330 bar) pressure for equipme nal when environmer roller covers. I areas only. Use high	t pressure.	(9.5 or 12.7 mm) Mat'l Hose ID 1/4" or 3/8" (6.4 or 9.5 mm) hnique and weather o not allow sprayin or synthetic bristle I	(5.2-6.9 bar) (5.2-6.9 bar)	10-20 psi (0.7-1.4 bar) ifold Filter 0 mesh 0 microns) 2" (9.5 mm to
SURFACE TEMPERATURE	Low temperatures Airless Spray Tip Orif 0.015"-0. (380-485 mi Use appropriate ti Roller: Roller app 12.7 mm) syntheti Brush: Recommer Without 44-700 With 44-700 M The surface shoul temperature.	ice 019" crons) ip/atomizing j lication option ic woven nap nded for small Minimum 50° inimum 35°F d be dry and	Atomizing Press 3000-4800 ps (207-330 bar) pressure for equipme nal when environmer roller covers. 1 areas only. Use high)°F (10°C) Maximum (2°C) Maximum 15 at least 5°F (3°C) abo	at pressure.	(9.5 or 12.7 mm) Mat'l Hose ID 1/4" or 3/8" (6.4 or 9.5 mm) hnique and weather o not allow sprayin or synthetic bristle h t. Coating won't cu	(5.2-6.9 bar) (5.2-6.9 bar) (6.250 (250 rr conditions. g. Use 3/8" or 1/2 prushes. re below minimu	10-20 psi (0.7-1.4 bar) ifold Filter i0 mesh 0 microns) 2" (9.5 mm to
SURFACE TEMPERATURE	Low temperatures Airless Spray Tip Orif 0.015"-0.1 (380-485 mi Use appropriate t Roller: Roller appl 12.7 mm) syntheti Brush: Recommer Without 44-700 M With 44-700 M The surface shoul temperature. Flush and clean a	ice 019" crons) ip/atomizing ; lication option ic woven nap uded for small Minimum 50 inimum 35°F d be dry and ll equipment	Atomizing Press 3000-4800 ps (207-330 bar) pressure for equipme nal when environmer roller covers. l areas only. Use high)°F (10°C) Maximum (2°C) Maximum 1; at least 5°F (3°C) abc immediately after use	aure aure si aure aure aure aure aure aure aure aure aure b) aure aure aure b) aure aure aure aure aure b) aure aure <	(9.5 or 12.7 mm) Mat'l Hose ID 1/4" or 3/8" (6.4 or 9.5 mm) hnique and weather o not allow sprayin or synthetic bristle h t. Coating won't cu- nended thinner or 1	(5.2-6.9 bar) (5.2-6.9 bar) (6.250 (250 er conditions. g. Use 3/8" or 1/2 orushes. re below minimu MEK.	10-20 psi (0.7-1.4 bar) ifold Filter 0 mesh 0 microns) 2" (9.5 mm to
SURFACE TEMPERATURE Cleanup	Low temperatures Airless Spray Tip Orif 0.015"-0. (380-485 mi Use appropriate ti Roller: Roller app 12.7 mm) syntheti Brush: Recommer Without 44-700 With 44-700 M The surface shoul temperature. Flush and clean a † Values may vary	s or longer hc ice 019" crons) ip/atomizing ib/atomiz	Atomizing Press 3000-4800 ps (207-330 bar) pressure for equipme nal when environmer roller covers. 1 areas only. Use high)°F (10°C) Maximum (2°C) Maximum 1; at least 5°F (3°C) abo immediately after use	ot pressure.	(9.5 or 12.7 mm) Mat'l Hose ID 1/4" or 3/8" (6.4 or 9.5 mm) hnique and weather on tallow spraying or synthetic bristle h t. Coating won't cur nended thinner or 1	(5.2-6.9 bar) (5.2-6.9 bar) (5.2-6.9 bar) (6) (250) (2	10-20 psi (0.7-1.4 bar) ifold Filter i0 mesh 0 microns) 2" (9.5 mm to um surface

sent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating

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