

State of Alaska Department of Environmental Conservation Village Safe Water Program

555 Cordova Street Anchorage, AK 99501 April.akers@alaska.gov

July 28, 2022

To: Vendor List

Re: Amendment 1

ITB 22-VSW-UNK-044

Unalakleet Water Source Project

ITB Due Date: August 11, 2022 @ 2:00 PM AST

The following changes are required:

1. The ITB due date is extended from August 4, 2022 to August 11, 2022 @ 2:00 PM AST.

The following are vendor questions and the department's response:

1. Vendor: My company are the Alaska reps for flowmeters that I'd like to propose as a prequalified equal replacement for the ABB Watermasters that are written into the spec for this project. I'm curious why reduced bore meters were specified for FIT-001 through -005? Can you advise if this might have been due to lack of straight pipe run into and out of the meters or was there another reason? Would it be possible to get the anticipated flow data for these applications to see if our sizing arrives at the same approximate meter sizes and materials as the ABB numbers given?

I also note a couple of discrepancies between the part numbers as they are laid out in the ABB data sheets and the numbers given in 40 90 00 2.1.J.

Department: The winning contractor may submit a substitution request with the appropriate backup after award of the contract in accordance with the ITB General Conditions. Substitutions will not be approved prior to bidding and award of contract.

2. Vendor: Is there a designated area for laydown and or stockpiling of materials for this project? If so, please identify if 1 area or multiple areas are available.

Department: The Contractor will work with the community to determine a laydown area.

3. Vendor: Can the location of "Barge unloading area" be identified in Unalakleet?

Department: Please see attached Barge unloading area picture.

4. Vendor: Where will the pre-purchased owner supplied materials be located? And will the materials still be in a bundle form?

Department: The materials will still be in bundle form at the barge landing area if they arrive before the Contractor is on-site.

5. Vendor: Will Contractor have to unload and stage pre-purchased owner supplied materials from barge? If so, what is the anticipated arrival date?

Department: The Contractor will need to unload and stage the pre-purchased material if it arrives while the Contractor is on site. The pipe is estimated to arrive September 2022, the well houses are expected to arrive in June 2023.

6. Vendor: Just verifying that all NSF and D-1 materials will all have to be imported for project, or is there a local pit that may be used if mined and screened?

Department: Unalakleet does have a gravel pit, coordinate with West Coast Construction for local pit-run material.

7. Vendor: Can an extension of the bid date be granted?

Department: See above required change, #1.

8. Vendor: Drawing E500 detail 2, Note1: Calls out to provide concrete encased footings. Can details for this be provided?

Department: 12" Diameter Sonotube. Minimum 5-feet deep. Minimum 2500 PSSI concrete.

9. Vendor: Drawing E500 detail 2, Note 2: Calls out to provide 2 Bollards. Can details for this be provided for bollards?

Department: Minimum 3" diameter Sch 80 steel pipe. Minimum 5' embedment within 12" diameter sonotube. Minimum 2500 psi concrete.

10. Vendor: The Owner supplied "Well Houses" drawing E100. Will these well houses be supplied prewired with heater or do these come bare and all parts for this is in this contract is to supply and install?

Department: The well houses come bare, all parts will need to be supplied and installed.

11. Vendor: Drawing D201, Filter Media Replacement: Note 2 call out to provide Touch-up painting of coating systems that are damaged. What is contractor to estimate and or define how much of tank needs this done? Also please provide coating specifications for this tank.

Department: Existing filter vessels are near new and undamaged. The Contractor shall be responsible for repairing any damage incurred as a result of Contractor activities. Square footage requiring touch up paint depends upon Contractor's care in replacing the media. See attached TNEMEC product data sheets.

12. Vendor: Drawing D201m Filter Media Replacement: Details are needed for the (2) tanks in order to replace gaskets as sizing is not shown and drawing is not to scale.

Department: See attached West Coast Filter, Inc., Filter Details, sheet 1 and sheet 2 shop drawings for filter vessel.

13. Vendor: Can waste materials from project be disposed of at local landfill? Or does all waste need to be hauled out?

Department: The local landfill is owned and operated by the City of Unalakleet (City). Contact the City for additional information. A monofill permit may be needed to dispose of construction waste on-site.

14. Vendor: Drawing C501 details 1 & 2, both call out the "Well Casing" is existing. Question, is the 2" pit-less adapter, well pump w/rising piping, wiring and heat trace all installed by well installer and existing?

Department: The existing well casings have no improvements (no pitless, no pump/drop pipe, no heat trace, etc). The Contractor shall be responsible for installation of all improvements. The Contractor shall be responsible for thawing out the wells if necessary and keeping them thawed once improvements are installed.

Evan Patterson

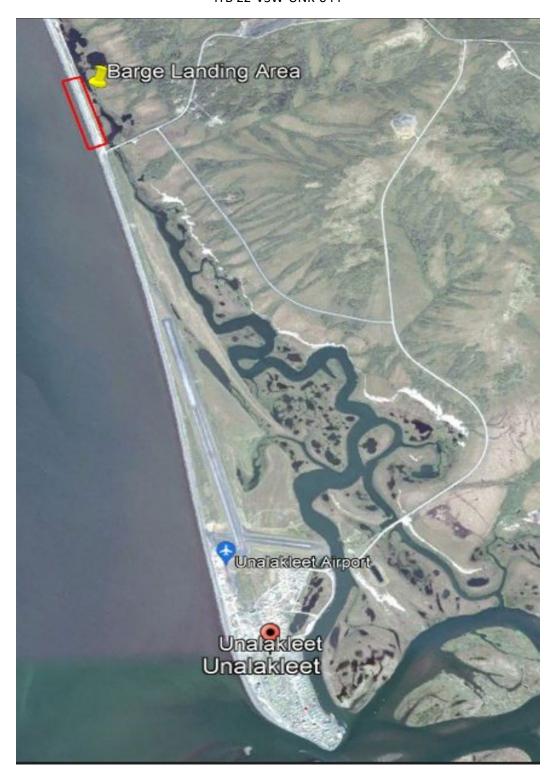
Procurement Specialist

Evan Patterson

Attachments:

- 1. Barge Unloading area.
- 2. TNEMEC product data sheets
- 3. West Coast Filter, Inc., Filter Details, sheet 1 and sheet 2 shop drawings.

ITB 22-VSW-UNK-044





ENDURATONE® SERIES 1029

PRODUCT PROFILE

GENERIC DESCRIPTION HDP Acrylic Polymer

COMMON USAGE

Water-based, low VOC, High Dispersion Pure acrylic polymer coating providing excellent long term protection in both interior/exterior exposures. May be applied by spray, brush or roller over a variety of solvent and waterborne steel primers. May also be used over many aged coatings. It is mildew resistant and exhibits very good gloss and color stability. Application methods include "dry-fall" under certain conditions (See Application). **Note:** Series 1029's "dry-fall" characteristics help reduce the potential for overspray problems on buildings and surrounding property.

COLORS Refer to Tnemec Color Guide. Note: Certain colors may require multiple coats depending on method of application and

finish coat color. When feasible, the preceding coat should be in the same color family (blue, gray, etc.), but noticeably

FINISH Low semi-gloss - Note: Final gloss level of topcoat can vary depending on number of coats applied. One coat will

generally result in a lower sheen than two coats of the material

COATING SYSTEM

PRIMERS Wood: Series 10-99W, V10-99W or 151-1051

Steel: Series 1, 10, 22, 30, 37H, 66, L69, L69F, N69, N69F, V69, V69F, 90-97, 90G-1K97, 91-H₂O, 94-H₂O, 113, 115, 135, L140, L140F, N140, N140F, V140, V140F, 141, 161, 287, 394. Note: Allow Series 10, V10 and 37H to cure three days before topcoating. Additionally, Series 1, 90-97, 90G-1K97, 91-H₂O, 94-H₂O and 394 must be exterior exposed for three days prior to topcoating. Note: This product exhibits direct-to-metal capabilities for dry interior environments. Contact Tnemec

Technical Service for more information. Aluminum & Galvanized: Series 66, L69, L69F, N69, N69F, V69, V69F, 115, 135

Concrete: Self-priming or Series 6, 54, 66, L69, L69F, N69, N69F, V69, V69F, 130, 151, 156, 180, 287, 1254 CMU: Series 54, 130, 1254

Drywall: Series 51, 151-1051, 287

TOPCOATS Series 1028, 1080, 1081

SURFACE PREPARATION

STEEL Weather Exposed: SSPC-SP6 Commercial Blast Cleaning.

Enclosed, Protected & Mild Environments: SSPC-SP2 Hand Tool or SSPC-SP3 Power Tool Cleaning.

GALVANIZED STEEL & ALUMINUM Surface preparation recommendations will vary depending on substrate and exposure conditions. Consult the latest version of Tnemec Technical Bulletin 10-78 or contact your Tnemec representative or Tnemec Technical Services

PAINTED SURFACES Remove chalk and old paint not tightly bonded to the surface. Clean all visible rust using SSPC-SP3 Power Tool Cleaning

(interior dry) or to bare metal using SSPC-SP11 Power Tool Cleaning to Bare Metal (weather exposed).

PRIMED SURFACES Must be clean, dry and free of dust, dirt, oil, grease and other contaminants. Existing water soluble stains in the substrate

or upon the surface must be removed or sealed. Allow concrete to cure 28 days.

TECHNICAL DATA

VOLUME SOLIDS $40.0 \pm 2.0\%$ †

RECOMMENDED DFT 2.0 to 3.0 mils (50 to 75 microns) per coat.

CURING TIME

Temperature	To Touch	To Handle	To Recoat	To Resist Moisture
75°F (24°C)	30 minutes	2 hours	2 hours	6 hours

Curing time varies with surface temperature, air movement, humidity and film thickness.

VOLATILE ORGANIC COMPOUNDS Unthinned: 0.79 lbs/gallon (94 grams/litre)

Thinned 5%: 0.79 lbs/gallon (94 grams/litre) †

Unthinned: 0.31 lbs/gal solids HAPS Thinned 5%: 0.31 lbs/gal solids

THEORETICAL COVERAGE 643 mil sq ft/gal (15.8 m²/L at 25 microns). See APPLICATION for coverage rates. †

NUMBER OF COMPONENTS

PACKAGING 5 gallon (18.9L) pails and 1 gallon (3.79L) cans.

NET WEIGHT PER GALLON 10.51 ± 0.25 lbs $(4.77 \pm .11 \text{ kg})$ †

Maximum 110°F (43°C) STORAGE TEMPERATURE Minimum 35°F (2°C) Protect from freezing.

TEMPERATURE RESISTANCE (Dry) Continuous 170°F (77°C) Intermittent 200°F (93°C)

SHELF LIFE 12 months at recommended storage temperature.

FLASH POINT - SETA

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.**

ENDURATONE® | SERIES 1029

APPLICATION

COVERAGE RATES

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m²/Gal)
Suggested	2.5 (65)	6.5 (165)	257 (23.9)
Minimum	2.0 (50)	5.0 (125)	321 (29.8)
Maximum	3.0 (75)	7.5 (190)	214 (19.9)

Allow for overspray and surface irregularities. Wet 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

MIXING

Stir to uniform consistency without creating air bubbles or foam. Avoid vigorous agitation, boxing or shaking.

THINNING

Thinning is not normally required, but when needed, thin up to 5% or 1/4 pint (190 mL) per gallon with clean tap water.

APPLICATION EQUIPMENT

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA	E	765 or 704	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	60-75 psi (4.1-5.2 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
0.013"-0.017" (330-430 microns)	2000-3000 psi (138-207 bar)	1/4" or 3/8" (6.4 or 9.5 mm)	60 mesh (250 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.

Note: On projects involving spray equipment being used over consecutive days, follow Cleanup Instructions below and then leave xylol in the system overnight, flushing thoroughly with clean water before each start-up.

Roller: Use 3/8" (6.4 mm) synthetic woven nap roller cover.

Brush: Use high quality nylon or synthetic bristle brushes. Note: Floetrol may be used at up to 32 ounces per gallon for improved application properties. Dry-fall and cure properties may be affected. For more information, contact Tnemec Technical Service.

SURFACE TEMPERATURE

Minimum 40°F (4°C) Maximum 120°F (49°C)

The surface should be dry and at least 5°F (3°C) above the dew point.

CLEANUP

Flush and clean all equipment immediately after use with water, then use alcohol or Methyl Ethyl Ketone (MEK) on any

CAUTION

Dry overspray can be wiped or washed from most surfaces. Satisfactory dry-fall performance depends upon height of work, weather conditions and equipment adjustment. Low temperature and high humidity are of particular concern. Test for each application as follows: Spray from 15 to 25 feet towards paint container. The material then should readily wipe off. **Note:** Heat can fuse-dry overspray to surfaces. Always clean dry overspray from hot surfaces before fusing occurs. Be aware that exterior surface temperatures can be higher than air temperature.

† Values may vary with color.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Themee Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Themee Company, Inc. THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The exclusive remedy against Themee Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Themee is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Themee Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.

PRODUCT PROFILE

GENERIC DESCRIPTION

Aromatic Urethane, Zinc-Rich

COMMON USAGE

A two-component, moisture-cured, zinc-rich primer for the interior and exterior of steel potable water tanks. Provides outstanding long-term corrosion resistance when used as a primer in conjunction with other Tnemec potable water tank coatings. It cures quickly and can be topcoated the same day at surface temperatures down to 35°F. Series 91-H₂O has no maximum recoat time, making it ideally suited as a primer for both sides of plate steel surfaces in water tank fabrication shops. Application methods include "dry-fall" under certain conditions (see Application). Note: When used in conjunction with cathodic protection, anodes or impressed current systems should **not** provide current demand more negative than -1.05 volts relative to a copper-copper sulfate reference electrode half-cell.

ZINC DUST CONTENT

83% by weight in dried film

COLOR

Greenish-gray

SPECIAL QUALIFICATIONS

TNEMEC

Certified (with or without 44-710 Urethane Accelerator) in accordance with ANSI/NSF Std. 61 for interior potable water tank applications. Topcoating with Std. 61 certified Tnemec coatings is recommended. Contact your Tnemec representative for specific recommendations. Meets zinc-rich primer requirements of AWWA D102-97 Standard for Inside System No. 3 and Outside System No. 6. Series 91-H₂O uses a zinc dust which meets the requirements of ASTM D 520 Type III and contains



less than .002% lead. PERFORMANCE CRITERIA

Extensive test data available. Contact your Tnemec representative for specific test results.

COATING SYSTEM

TOPCOATS

Please refer to Tnemec's Systems Guide for Water Storage Tanks for specific systems and addi-

tional information.

Interior: Series 20, FC20, N140

Exterior: Series 27, 66, N69, 73, 161, 175, 700, 1074, 1075. Note: Certain topcoat colors may not provide one-coat hiding depending on method of application. Contact your Tnemec representative.

To Recoat

SURFACE PREPARATION

Wet Interior: SSPC-SP10/NACE 2 Near-White Blast Cleaning

Exterior or Dry Interior: SSPC-SP6/NACE 3 Commercial Blast Cleaning

TECHNICAL DATA

VOLUME SOLIDS

 $63.0 \pm 2.0\%$ (mixed)

Temperature

RECOMMENDED DFT CLIDING TIME

2.5 to 3.5 mils (65 to 90 microns)

CURING HIVE
Without 44-710

75°F (24°C)	1 hour	4 hours
65°F (18°C)	1½ hours	5 hours
55°F (11°C)	2 hours	6 hours
45°F (7°C)	2½ hours	7 hours
35°F (2°C)	3 hours	8 hours

To Handle

Curing time will vary with surface temperature, humidity and film thickness.

With 44-710

Reference the 44-710 Urethane Accelerator product data sheet.

Note: For cure times to immersion service, reference the specified Tnemec interior topcoat product data sheet.

VOLATILE ORGANIC COMPOUNDS

Unthinned Thinned 2.5% Thinned 10% 2.65 lbs/gallon 2.76 lbs/gallon 3.07 lbs/gallon (318 grams/litre) (331 grams/litre) (368 grams/litre)

THEORETICAL COVERAGE

1,011 mil sq ft/qal (24.8 m²/L at 25 microns). See APPLICATION for coverage rates.

NUMBER OF COMPONENTS

Two: Part A and Part B

PACKAGING

Four-Gallon and One-Gallon Kits: Consist of one premeasured container of liquid (Part A) and one premeasured container of powder (Part B). When mixed, yields four gallons (15.1L) or one

gallon (3.79L).

NET WEIGHT PER GALLON

 23.94 ± 0.60 lbs $(10.86 \pm .27 \text{ kg})$

STORAGE TEMPERATURE

Minimum 20°F (-7°C) Maximum 110°F (43°C)

TEMPERATURE RESISTANCE

Intermittent 300°F (149°C) (Dry) Continuous 250°F (121°C)

SHELF LIFE

9 months at recommended storage temperature.

FLASH POINT - SETA

Part A: 78°F (26°C) Part B: NA

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

91-H₂O

the use of this product. Keep out of the reach of children.

91-H₂0 Hydro-Zinc®

APPLICATION

CAUTION!

Dry overspray can be wiped or washed from most surfaces. Satisfactory dry-fall performance depends upon height of work, weather conditions and equipment adjustment. Low temperature is of particular concern. Test for each application as follows: Spray from 15 to 25 feet towards paint container. The material then should readily wipe off. **Note:** Heat can fuse-dry overspray to surfaces. Always clean dry overspray from hot surfaces before fusing occurs. Be aware that exterior surface temperatures can be higher than air temperature.

COVERAGE RATES

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m²/Gal)
Suggested	3.0 (75)	5.0 (125)	337 (31.3)
Minimum	2.5 (65)	4.0 (100)	404 (37.5)
Maximum	3.5 (90)	5.5 (140)	289 (26.9)

Allow for overspray and 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

Note: It is important to always use the entire contents of A and B components. Use a mechanical mixer and keep material under constant agitation while mixing. Slowly sift the entire contents of Part B zinc powder into liquid (Part A).

-Do Not Reverse This ProcedureAdjust mixer speed to break up lumps and mix until the two components are thoroughly blended. Strain through a 35 to 50 mesh (300 to 600 microns) screen before using. For spray application, keep under low RPM agitation to prevent settling. For brush or roller application, stir frequently to prevent settling. Do not use mixed material beyond pot life limits. 8 hours at 77°F (25°C) and 50% R.H.

POT LIFE

Caution: This product cures with moisture acting as a catalyst. Incorporation of moisture or moisture laden air (humidity) during use will shorten pot life. Avoid continual agitation at high RPM. When feasible keep containers of mixed material covered during use.

THINNING

For spray, thin up to 10% or $^{3}4$ pint (380 mL) per gallon with No. 2 Thinner if temperatures are below $80^{\circ}F$ (27°C). Thin up to 10% or $^{3}4$ pint (380 mL) per gallon with No. 3 Thinner if temperatures are above $80^{\circ}F$ (27°C). For brush or roller, thin up to 10% or $^{3}4$ pint (380 mL) with No. 3 Thinner. Do not thin more than 2.5% when air pollution regulations limit the atmospheric discharge of volatile organic compounds (VOC) in coatings to a maximum of 340 grams/litre (2.80 lbs/gal). **Caution:** Series $91-H_2O$ certification is based on thinning with No. 2 Thinner. Use of any other thinner voids ANSI/NSF Std. 61 certification.

SURFACE TEMPERATURE

Minimum 35°F (2°C) Maximum 120°F (49°C) Maximum for Brush & Roller 100°F (38°C) The surface should be dry and at least 5°F (3°C) above the dew point.

APPLICATION EQUIPMENT

Note: When intermediate and finish coats are white or light colors, best hiding of this dark color primer can be achieved by spray application; or when roller applied, by using ¼" nap covers.

Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss*	E	78	5/16" or 3/8"	3/8" or 1/2"	40-50 psi	10-20 psi
MBC or JGA			(7.9 or 9.5 mm)	(9.5 or 12.7 mm)	(2.8-3.4 bar)	(0.7-1.4 bar)

^{* (}with heavy mastic spring) Low temperatures or longer hoses will require additional pressure. Use pressure pot equipped with an agitator and keep pressure pot at same level or higher than the spray gun. Compressed air must be dry.

Airless Spray

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.017"-0.021" (430-535 microns) Reversible Tip	2400-3000 psi (165-207 bar)	1/4" or 3/8" (6.4 or 9.5 mm)	60 mesh (250 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.

Roller: Use a 1/4" or 3/8" (6.4 mm or 9.5 mm) synthetic nap cover. Stir material frequently or keep under agitation to prevent settling.

Brush: Use high quality natural or synthetic bristle brushes. Stir material frequently or keep under agitation to prevent settling.

CLEANUP Flush and clean all equipment immediately after use with the recommended thinner or xylene.

WARRANTY & LIMITATION OF SELLER'S LIABILITY: Themec Company, Inc. warrants only that its coatings represented herein meet the formulation standards of Themec Company, Inc.

THE WARRANTY DESCRIBED IN THE ABOVE PARAGRAPH SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The buyer's sole and exclusive remedy against Inenec Company, Inc. shall be for replacement of the product in the event a defective condition of the product should be found to exist and the exclusive remedy shall not have failed its essential purpose as long as Tnemec is willing to provide comparable replacement product to the buyer. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, ENVIRONMENTAL INJURIES OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating. FOR INDUSTRIAL USE ONLY.

