



SYSTEMS GUIDE

TO HIGH PERFORMANCE COATINGS FOR
SPECIALIZED ARCHITECTURAL APPLICATIONS

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Published technical data, instructions, and pricing are subject to change without notice. Contact your Tnemec technical representative for current technical data, instructions, and pricing. Warranty information: The service life of Tnemec's coatings will vary. For warranty, limitation of seller's liability, and product information, please refer to Tnemec's Product Data Sheets at www.tnemec.com or contact your Tnemec Technical Representative. 11/2016

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INNOVATION IN EVERY COAT.™

SPECIALIZED ARCHITECTURAL: SELECTION GUIDE FOR COATINGS

STEEL — SHOP FINISHING

INTERIOR EXPOSED

System Type:	Inorganic Water-Based Epoxy Primer
Surface Preparation:	SSPC-SP6/NACE 3
Primer (Shop):	Series 27WB Typoxy, DFT 4.0 to 6.0 mils ^{[19] [20] [21]}
Total DFT:	4.0 to 6.0 mils

EXTERIOR EXPOSED — NON-IMMERSION

System Type:	Zinc-Rich Primer
Surface Preparation:	SSPC-SP6/NACE 3
Primer (Shop):	Series 94-H ₂ O Hydro-Zinc, DFT 2.5 to 3.5 mils ^{[19] [20] [21]}
Total DFT:	2.5 to 3.5 mils

INTERIOR/EXTERIOR EXPOSED — IMMERSION/NON-IMMERSION

System Type:	Zinc-Rich Primer
Surface Preparation:	SSPC-SP6/NACE 3
Primer (Shop):	Series 394 PerimePrime, DFT 2.5 to 3.5 mils ^{[19] [20]}
Total DFT:	2.5 to 3.5 mils

INTERIOR STEEL

SHOP PRIMER FOR DRY INTERIOR, CONCEALED

System Type:	Inorganic Water-Based Epoxy
Surface Preparation:	SSPC-SP2/3
Primer (Shop):	Series 27WB Typoxy, DFT 4.0 to 6.0 mils ^{[2] [19] [20]}
Total DFT:	4.0 to 6.0 mils

EXTENDED FIELD EXPOSURE OF SHOP PRIMER AND/OR MODERATE CONDITIONS

System Type:	Epoxy/Acrylic/Acrylic
Surface Preparation:	SSPC-SP3
Primer (Field):	Series 94-H ₂ O Hydro-Zinc, DFT 2.5 to 3.5 mils ^{[19] [20]}
Intermediate Coat:	Series 1029 Enduratone (semi-gloss), DFT 2.0 to 3.0 mils ^{[2] [19] [20]}
Finish Coat:	Series 1029 Enduratone (semi-gloss), DFT 2.0 to 3.0 mils ^{[2] [19] [20]}
Total DFT:	8.5 to 12.5 mils

WET AND/OR MODERATE EXPOSURE

System Type:	Inorganic Water-Based Epoxy/Inorganic Water-Based Epoxy
Surface Preparation:	SSPC-SP6/NACE 3
Primer:	Series 27WB Typoxy, DFT 4.0 to 6.0 mils ^{[2] [19] [20]}
Finish Coat:	Series 27WB Typoxy, DFT 4.0 to 6.0 mils ^{[2] [19] [20]}
Total DFT:	8.0 to 12.0 mils

Environmental Projects: All products listed comply with LEED 2009 (v3.0) Building Design & Construction (BD+C) Rating System Guidelines. For shop and exterior applications, other Tnemec coatings may be utilized depending on project requirements. Please contact your Tnemec representative, refer to the product data sheets or visit www.tnemec.com for more information.

See back page for brief description of all listed products. Reference the product data sheet for details.

1 The Stranlok system can be applied over other substrates such as steel, wood, Gypsum Board, FRP, etc.

2 Depending upon the color of the primer/intermediate coat or method of application, additional coats may be required to achieve recommended film thickness and/or hiding.

3 Haydite, split-face and lightweight block will require a filler/surfacer to provide a smooth, pin-hole-free surface. Series 1254 EpoxoBlock WB is recommended.

4 Some exterior stucco or plaster finishes may not require Series 151-1051 primer. Contact Tnemec Technical Services for additional information.

5 For additional protection and extension of long term weathering qualities, specify Series 1074U (gloss) or 1075U (semi-gloss).

6 Galvanized Steel and Nonferrous Metal: Surface preparation recommendations will vary depending on substrate and exposure conditions. Contact your Tnemec representative or Tnemec Technical Services for information. Reference Technical Bulletin 10-78, ASTM D6386.

7 Use for field priming of steel.

8 Series 1077 & 1078 metallics are recommended for air spray applications only. Touch-up by brushing or rolling may create a noticeably different finish.

9 Series L69 or V69 may be substituted when lower VOC or HAPS levels are needed.

10 Reference SSPC-SP13/NACE 6 and ICRI Guideline No. 03732.

11 Use Series 206 over primer where a crack-bridging membrane is needed.

12 Slurry/broadcast application requires Series 201 as primer. (Standard double broadcast application is self-priming).

13 Series 237 can be used in lieu of Series 222 for slurry broadcast or double broadcast applications and Series 223 for mortar applications.

14 Topcoat with Series 285 Satinglaze for an orange-peel texture and satin finish. Use Series 295 Clear CRU as a finish coat for added chemical resistance and a gloss finish.

15 Coverage may vary depending on density of the substrate.

16 System recommendations will vary depending on the generic type and condition of the existing system. Please contact your Tnemec representative for an overcoat risk assessment and specific recommendations. Reference SSPC-TU3 or the latest edition of Tnemec Technical Bulletin 98-10.

17 Film thickness for coatings applied to concrete and CMU is calculated from the sq ft/gal figures. There is no method for accurately measuring the film thickness of coatings applied over a rough masonry substrate.

18 In lieu of Series 94-H₂O, Series 10 Tnemec Primer can be used for shop application only. (For field touch-up, a compliant primer must be used).

19 Complies with LEED v3.0 B D + C Rating System.

20 Complies with LEED v4.0 B D +C Rating System.

21 Application of the primer coat shall follow immediately after surface preparation and cleaning and within an eight hour working day.

SPECIALIZED ARCHITECTURAL: SELECTION GUIDE FOR COATINGS

INTERIOR STEEL (CONTINUED)

WET, MODERATE EXPOSURE, COLOR STABLE

System Type:	Inorganic Water-Based Epoxy/Polyurethane
Surface Preparation:	SSPC-SP6/NACE 3
Primer:	Series 27WB Typoxy, DFT 4.0 to 6.0 mils ^{[2] [19] [20]}
Intermediate:	Series 27WB Typoxy, DFT 4.0 to 6.0 mils ^{[2] [19] [20]}
Finish Coat:	Series 1080 Endura-Shield, DFT 2.0 to 3.0 mils ^{[2] [19] [20]}
Total DFT:	10.0 to 15.0 mils

NATATORIUM, STRUCTURAL STEEL & BAR JOISTS

System Type:	Zinc-Rich Urethane/Acrylic
Surface Preparation:	SSPC-SP6/NACE 3
Primer:	Series 94-H ₂ O Hydro-Zinc, DFT 2.5 to 3.5 mils ^{[2] [19] [20]}
Intermediate Coat:	Series 115 Uni-Bond DF, 2.0 to 4.0 mils ^{[2] [19]}
Finish Coat:	Series 115 Uni-Bond DF, 2.0 to 4.0 mils ^{[2] [19]}
Total DFT:	6.5 to 11.5 mils

EXTERIOR STEEL

MILD ATMOSPHERIC

System Type:	Zinc-Rich Urethane/Acrylic/Acrylic
Surface Preparation:	SSPC-SP6/NACE 3
Primer:	Series 94-H ₂ O Hydro-Zinc, DFT 2.5 to 3.5 mils ^{[19] [20]}
Intermediate Coat:	Series 1029 Enduratone (semi-gloss), DFT 2.0 to 3.0 mils ^{[2] [19] [20]}
Finish Coat:	Series 1029 Enduratone (semi-gloss), DFT 2.0 to 3.0 mils ^{[2] [19] [20]}
Total DFT:	6.5 to 9.5 mils

MODERATE CORROSION, STANDARD UV PROTECTION

System Type:	Zinc-Rich Urethane/Inorganic Water-Based Epoxy/Polyurethane
Surface Preparation:	SSPC-SP6/NACE 3
Primer:	Series 94-H ₂ O Hydro-Zinc, DFT 2.5 to 3.5 mils ^{[19] [20]}
Intermediate Coat:	Series 27WB Typoxy, DFT 4.0 to 6.0 mils ^{[2] [19] [20]}
Finish (2 Coats):	Series 1095 Endura-Shield, DFT 2.0 to 3.0 mils ^{[2] [19]}
Total DFT:	8.5 to 12.5 mils

AGGRESSIVE CORROSION, EXTENDED UV PROTECTION

System Type:	Zinc-Rich Urethane/Inorganic Water-Based Epoxy/Fluoropolymer
Surface Preparation:	SSPC-SP10/NACE 2
Primer:	Series 94-H ₂ O Hydro-Zinc, DFT 2.5 to 3.5 mils ^{[19] [20]}
Intermediate Coat:	Series 27WB Typoxy, DFT 4.0 to 6.0 mils ^{[2] [19] [20]}
Finish Coat:	Series 1070V (gloss), 1071V (semi-gloss) or 1072V (satin) Fluoronar, DFT 2.0 to 3.0 mils ^{[2] [19]}
Total DFT:	8.5 to 12.5 mils

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4 Some exterior stucco or plaster finishes may not require Series 151-1051 primer. Contact Tnemec Technical Services for additional information.

5 For additional protection and extension of long term weathering qualities, specify Series 1074U (gloss) or 1075U (semi-gloss).

6 Galvanized Steel and Nonferrous Metal: Surface preparation recommendations will vary depending on substrate and exposure conditions. Contact your Tnemec representative or Tnemec Technical Services for information. Reference Technical Bulletin 10-78, ASTM D6386.

7 Use for field priming of steel.

8 Series 1077 & 1078 metallics are recommended for air spray applications only. Touch-up by brushing or rolling may create a noticeably different finish.

9 Series L69 or V69 may be substituted when lower VOC or HAPS levels are needed.

10 Reference SSPC-SP13/NACE 6 and ICRI Guideline No. 03732.

11 Use Series 206 over primer where a crack-bridging membrane is needed.

12 Slurry/broadcast application requires Series 201 as primer. (Standard double broadcast application is self-priming).

13 Series 237 can be used in lieu of Series 222 for slurry broadcast or double broadcast applications and Series 223 for mortar applications.

14 Topcoat with Series 285 Satinglaze for an orange-peel texture and satin finish. Use Series 295 Clear CRU as a finish coat for added chemical resistance and a gloss finish.

15 Coverage may vary depending on density of the substrate.

16 System recommendations will vary depending on the generic type and condition of the existing system. Please contact your Tnemec representative for an overcoat risk assessment and specific recommendations. Reference SSPC-TU3 or the latest edition of Tnemec Technical Bulletin 98-10.

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19 Complies with LEED v3.0 B D + C Rating System.

20 Complies with LEED v4.0 B D +C Rating System.

21 Application of the primer coat shall follow immediately after surface preparation and cleaning and within an eight hour working day.

SPECIALIZED ARCHITECTURAL: SELECTION GUIDE FOR COATINGS

INTERIOR CONCRETE & MASONRY

MILD TO MODERATE

System Type:	Inorganic Water-Based Epoxy/Inorganic Water-Based Epoxy
Surface Preparation:	SSPC-SP13/NACE 6, Clean and Dry
Primer:	Series 27WB Typoxy, DFT 4.0 to 6.0 mils ^{[15] [19] [20]}
Finish Coat:	Series 27WB Typoxy, DFT 4.0 to 6.0 mils ^{[15] [19] [20]}
Total DFT:	8.0 to 12.0 mils

MODERATE TO SEVERE CONDITIONS, PHYSICAL CONTACT AND/OR ABUSE, PUBLIC AREAS OR PREPARATION AREAS FREQUENTLY CLEANED OR WET

System Type:	Epoxy/Urethane
Surface Preparation:	SSPC-SP13/NACE 6
Block Filler (Porous CMU):	Series 1254 EpoxoBlock WB, 75 to 100 ft ² /gallon ^{[19] [20]}
Primer:	Series 27WB Typoxy, DFT 4.0 to 6.0 mils ^{[2] [19] [20]}
Finish Coat:	Series 1081 Endura-Shield WB (semi-gloss), DFT 2.0 to 3.0 mils ^{[2] [19] [20]}
Total DFT:	6.0 to 9.0 mils over block filler

PARKING GARAGE CEILING & WALLS

System Type:	Water-Based Epoxy/Modified Waterborne Acrylate
Surface Preparation:	SSPC-SP13/NACE 6
Block Filler:	Series 1254 EpoxoBlock WB, 75 to 100 ft ² /gallon ^{[19] [20]}
Primer:	Series 156 Enviro-Crete or 180 W.B. Tneme-Crete, DFT 4.0 to 8.0 mils ^{[19] [20]}
Finish Coat:	Series 156 Enviro-Crete or 180 W.B. Tneme-Crete, DFT 4.0 to 8.0 mils ^{[19] [20]}
Total DFT:	8.0 to 16.0 mils over block filler

INTERIOR FLOORS—THIN FILM SYSTEMS

MILD TO MODERATE ABUSE, FOOT TRAFFIC, CHEMICAL EXPOSURE

System Type:	Epoxy/Urethane
Surface Preparation:	Shot Blast or Mechanically Abrade—ICRI CSP 3 ^[10]
Primer:	Series 201 Epoxoprime (optional), DFT 6.0 to 8.0 mils ^[19]
Intermediate Coat:	Series 281 Tneme-Glaze, DFT 6.0 to 8.0 mils ^[19]
Finish Coat (Option 1):	Series 290 CRU (semi-gloss), DFT 2.0 to 3.0 mils ^[19]
Finish Coat (Option 2):	Series 248 EverThane (gloss), DFT 2.0 to 3.0 mils ^[19]
Total DFT:	8.0 to 19.0 mils

MODERATE ABUSE, DECORATIVE, WET

System Type:	Epoxy/Epoxy/Epoxy
Surface Preparation:	Shot Blast or Mechanically Abrade—ICRI CSP 4-6 ^[10]
Primer:	Series 201 Epoxoprime (optional), DFT 6.0 to 8.0 mils ^[19]
Intermediate Coat:	Series 222 Deco-Tread (double broadcast or slurry/broadcast, DFT 1/8 inch) ^[19]
Finish Coat:	Series 284 Deco-Clear, DFT 8.0 to 10.0 mils ^[19]
Total DFT:	Nominal 1/8 inch system

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4 Some exterior stucco or plaster finishes may not require Series 151-1051 primer. Contact Tnemec Technical Services for additional information.

5 For additional protection and extension of long term weathering qualities, specify Series 1074U (gloss) or 1075U (semi-gloss).

6 Galvanized Steel and Nonferrous Metal: Surface preparation recommendations will vary depending on substrate and exposure conditions. Contact your Tnemec representative or Tnemec Technical Services for information. Reference Technical Bulletin 10-78, ASTM D6386.

7 Use for field priming of steel.

8 Series 1077 & 1078 metallics are recommended for air spray applications only. Touch-up by brushing or rolling may create a noticeably different finish.

9 Series L69 or V69 may be substituted when lower VOC or HAPS levels are needed.

10 Reference SSPC-SP13/NACE 6 and ICRI Guideline No. 03732.

11 Use Series 206 over primer where a crack-bridging membrane is needed.

12 Slurry/broadcast application requires Series 201 as primer. (Standard double broadcast application is self-priming).

13 Series 237 can be used in lieu of Series 222 for slurry broadcast or double broadcast applications and Series 223 for mortar applications.

14 Topcoat with Series 285 Satinglaze for an orange-peel texture and satin finish. Use Series 295 Clear CRU as a finish coat for added chemical resistance and a gloss finish.

15 Coverage may vary depending on density of the substrate.

16 System recommendations will vary depending on the generic type and condition of the existing system. Please contact your Tnemec representative for an overcoat risk assessment and specific recommendations. Reference SSPC-TU3 or the latest edition of Tnemec Technical Bulletin 98-10.

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18 In lieu of Series 94-H₂O, Series 10 Tnemec Primer can be used for shop application only. (For field touch-up, a compliant primer must be used).

19 Complies with LEED v3.0 B D + C Rating System.

20 Complies with LEED v4.0 B D +C Rating System.

21 Application of the primer coat shall follow immediately after surface preparation and cleaning and within an eight hour working day.

SPECIALIZED ARCHITECTURAL: SELECTION GUIDE FOR COATINGS

INTERIOR FLOORS — THIN FILM SYSTEMS (CONTINUED)

MILD TO MODERATE ABUSE, FOOT TRAFFIC, CHEMICAL EXPOSURE; ORANGE-PEEL FINISH

System Type:	Epoxy/Epoxy/Polyurethane
Surface Preparation:	Shot Blast or Mechanically Abrade—ICRI CSP 3-5 ^[10]
Primer:	Series 201 Epoxoprime, DFT 6.0 to 8.0 mils ^[19]
Intermediate Coat:	Series 280 Tneme-Glaze, DFT 6.0 to 8.0 mils ^[19]
Finish Coat (Optional):	Series 290 CRU (semi-gloss), DFT 2.0 to 3.0 mils ^[19]
Total DFT:	12.0 to 19.0 mils

INTERIOR FLOORS — LAMINATE SYSTEMS

DECORATIVE QUARTZ—MODERATE ABUSE, DECORATIVE, WET, CHEMICAL EXPOSURE

System Type:	Epoxy (Double Broadcast/Slurry Broadcast)
Surface Preparation:	Shot Blast or Mechanically Abrade - ICRI CSP 3 or greater ^[10]
Primer (Optional):	Series 201 Epoxoprime, DFT 6.0 to 8.0 mils ^[19]
Intermediate Coat:	Series 222 Deco-Tread (double broadcast or slurry broadcast), DFT 1/8 inch ^[19]
Topcoat:	Series 284 Deco-Clear, DFT 8.0 to 12.0 mils ^[19]
Finish Coat (Option 1):	Series 294 Clear CRU (semi-gloss), DFT 2.0 to 3.0 mils ^[19]
Finish Coat (Option 2):	Series 248 EverThane (semi-gloss), DFT 2.0 to 3.0 mils ^[19]
Total DFT:	Nominal 1/8 inch system

INTERIOR FLOORS — MORTAR SYSTEMS

SEVERE EXPOSURE, HEAVY TRAFFIC OR ABUSE, WET, CHEMICAL CONTACT

System Type:	Epoxy Mortar
Surface Preparation:	Shot Blast or Mechanically Abrade—ICRI CSP 3 or greater ^[10]
Primer (Optional):	Series 201 Epoxoprime, DFT 6.0 to 8.0 mils ^[19]
Intermediate Coat:	Series 237 Power-Tread, DFT 1/4 inch ^[19]
Grout Coat:	Series 237 Power-Tread, DFT 6.0 to 8.0 mils ^[19]
Finish Coat:	Series 280 Tneme-Glaze, DFT 8.0 to 12.0 mils ^[19]
Total DFT:	Nominal 1/4 inch system

SEVERE EXPOSURE, HEAVY TRAFFIC OR ABUSE, WET, CHEMICAL CONTACT, THERMAL SHOCK

System Type:	Polyurethane Modified Concrete
Surface Preparation:	Shot Blast or Mechanically Abrade—ICRI CSP 5 or greater ^[10]
Primer:	Series 245 Ultra-Tread S (slurry), DFT 3/16 inch (1/8 to 1/2 inch) ^[19]
Finish Coat:	Series 280 Tneme-Glaze, DFT 8.0 to 10.0 mils ^[19]
Total DFT:	Nominal 3/16 inch system

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2 Depending upon the color of the primer/intermediate coat or method of application, additional coats may be required to achieve recommended film thickness and/or hiding.

3 Haydite, split-face and lightweight block will require a filler/surfacers to provide a smooth, pin-hole-free surface. Series 1254 EpoxoBlock WB is recommended.

4 Some exterior stucco or plaster finishes may not require Series 151-1051 primer. Contact Tnemec Technical Services for additional information.

5 For additional protection and extension of long term weathering qualities, specify Series 1074U (gloss) or 1075U (semi-gloss).

6 Galvanized Steel and Nonferrous Metal: Surface preparation recommendations will vary depending on substrate and exposure conditions. Contact your Tnemec representative or Tnemec Technical Services for information. Reference Technical Bulletin 10-78, ASTM D6386.

7 Use for field priming of steel.

8 Series 1077 & 1078 metallics are recommended for air spray applications only. Touch-up by brushing or rolling may create a noticeably different finish.

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11 Use Series 206 over primer where a crack-bridging membrane is needed.

12 Slurry/broadcast application requires Series 201 as primer. (Standard double broadcast application is self-priming).

13 Series 237 can be used in lieu of Series 222 for slurry broadcast or double broadcast applications and Series 223 for mortar applications.

14 Topcoat with Series 285 Satinglaze for an orange-peel texture and satin finish. Use Series 295 Clear CRU as a finish coat for added chemical resistance and a gloss finish.

15 Coverage may vary depending on density of the substrate.

16 System recommendations will vary depending on the generic type and condition of the existing system. Please contact your Tnemec representative for an overcoat risk assessment and specific recommendations. Reference SSPC-TU3 or the latest edition of Tnemec Technical Bulletin 98-10.

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SPECIALIZED ARCHITECTURAL: SELECTION GUIDE FOR COATINGS

CONCRETE & MASONRY — EXTERIOR

MILD TO SEVERE EXPOSURE

System Type:	Inorganic Water-Based Epoxy/Water-Based Modified Acrylate
Surface Preparation:	SSPC-SP13/NACE 6, Clean and Dry
Block Filler:	Series 1254 EpoxoBlock WB, 75 to 100 ft ² /gallon ^[19] ^[20]
Primer:	Series 156 Enviro-Crete (smooth/matte), DFT 4.0 to 8.0 mils ^[19] ^[20]
Finish Coat:	Series 156 Enviro-Crete (smooth/matte), DFT 4.0 to 8.0 mils ^[19] ^[20]
Total DFT:	8.0 to 16.0 mils

MILD TO MODERATE, WATER REPELLENCY

System Type:	Siloxane/Acrylic
Surface Preparation:	SSPC-SP13/NACE 6, Clean and Dry
Primer:	Series 633 Prime-A-Pell H ₂ O, 100 to 125 ft ² /gallon ^[15] ^[19]
Finish Coat:	Series 617 Conformal Stain WB, DFT 0.5 to 2.5 mils ^[15] ^[19]
Total DFT:	0.5 to 2.5 mils

MODERATE TO SEVERE, GRAFFITI PROTECTION

System Type:	RTV Silicone
Surface Preparation:	SSPC-SP13/NACE 6, Clean and Dry
Primer:	Series V626 Dur A Pell GS, DFT 65 to 300 ft ² /gallon ^[15] ^[19]
Finish Coat:	Series V626 Dur A Pell GS, DFT 65 to 300 ft ² /gallon ^[15] ^[19]
Total DFT:	75 to 150 ft ² /gallon

STUCCO

MILD TO MODERATE

System Type:	Inorganic Water-Based Epoxy/Acrylic
Surface Preparation:	SSPC-SP13/NACE 6, Clean and Dry
Primer:	Series 27WB Typoxy, DFT 4.0 to 6.0 mils ^[16] ^[19] ^[20]
Finish Coat:	Series 1029 Enduratone (semi-gloss), DFT 2.0 to 3.0 mils ^[2] ^[19] ^[20]
Total DFT:	6.0 to 9.0 mils

MODERATE TO SEVERE

System Type:	Epoxy/Acrylate/Acrylate
Surface Preparation:	SSPC-SP6/NACE 3, Clean and Dry
Primer:	Series 1254 EpoxoBlock WB, 75 to 100 ft ² /gallon ^[16] ^[19] ^[20]
Intermediate Coat:	Series 156 Enviro-Crete (smooth/matte), DFT 4.0 to 8.0 mils ^[19] ^[20]
Finish Coat:	Series 156 Enviro-Crete (smooth/matte), DFT 4.0 to 8.0 mils ^[19] ^[20]
Total DFT:	8.0 to 16.0 mils

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17 Film thickness for coatings applied to concrete and CMU is calculated from the sq ft/gal figures. There is no method for accurately measuring the film thickness of coatings applied over a rough masonry substrate.

18 In lieu of Series 94-H₂O, Series 10 Tnemec Primer can be used for shop application only. (For field touch-up, a compliant primer must be used).

19 Complies with LEED v3.0 B D + C Rating System.

20 Complies with LEED v4.0 B D +C Rating System.

21 Application of the primer coat shall follow immediately after surface preparation and cleaning and within an eight hour working day.

SPECIALIZED ARCHITECTURAL: SELECTION GUIDE FOR COATINGS

GALVANIZED STEEL — INTERIOR

OVERHEAD DECK, DUCTWORK, CONDUIT, DRY

System Type:	Acrylic/Acrylic
Surface Preparation:	Contact Tnemec for recommendation. ^[6]
Primer:	Series 115 Uni-Bond DF, DFT 2.0 to 4.0 mils ^{[6] [19] [20]}
Finish Coat:	Series 115 Uni-Bond DF, DFT 2.0 to 4.0 mils ^{[6] [19] [20]}
Total DFT:	4.0 to 8.0 mils

GALVANIZED STEEL — INTERIOR & EXTERIOR

MILD TO MODERATE ENVIRONMENTS — DRY

System Type:	Acrylic/Acrylic
Surface Preparation:	Contact Tnemec for recommendation. ^[6]
Primer:	Series 115 Uni-Bond DF, DFT 2.0 to 4.0 mils ^{[6] [19] [20]}
Finish Coat:	Series 1029 Enduratone (semi-gloss), DFT 2.0 to 3.0 mils ^{[2] [19] [20]}
Total DFT:	4.0 to 7.0 mils

MODERATE CONDITIONS AND/OR UV EXPOSURE

System Type:	Inorganic Water-Based Epoxy/Polyurethane or Acrylic/Polyurethane
Surface Preparation:	Contact Tnemec for recommendation. ^[6]
Primer (Option 1):	Series 27WB Typoxy, DFT 4.0 to 6.0 mils ^{[2] [6] [19] [20]}
Primer (Option 2):	Series 115 Uni-Bond DF, DFT 2.0 to 3.0 mils ^{[2] [6] [19] [20]}
Finish Coat:	Series 1080 (gloss) or 1081 (semi-gloss) Endura-Shield WB, DFT 2.0 to 3.0 mils ^{[2] [19] [20]}
Total DFT:	5.0 to 9.0 mils

CONDENSATION CONTROL

FLUID-APPLIED THERMAL BREAK FOR INTERIOR OR EXTERIOR STEEL

System Type:	Zinc-Rich MCU/Acrylic/Acrylic
Surface Preparation:	SSPC-SP6/NACE 3
Primer:	Series 94-H ₂ O Hydro-Zinc, DFT 2.5 to 3.5 mils ^{[19] [20]}
Intermediate Coat:	Series 971 Aerolon Acrylic, DFT 40.0 to 50.0 mils per coat. Two coats required. ^{[19] [20]}
Finish Coat (Optional):	Series 1028 Enduratone, DFT 2.0 to 3.0 mils ^{[19] [20]}
Total DFT:	82.5 to 103.5 or 84.5 to 106.5 mils

System Type:	Zinc-Rich MCU/Acrylic/Acrylic
Surface Preparation:	SSPC-SP6/NACE3
Primer:	Series 394-0250 PerimePrime, DFT 2.5 to 3.5 mils per coat.
Intermediate Coat:	Series 971 Aerolon Acrylic, DFT 40.0 to 50.0 mils per coat. Two coats required. ^{[19] [20]}
Finish Coat (Optional):	Series 1028 Enduratone, DFT 2.0 to 3.0 mils ^{[19] [20]}
Total DFT:	102.5 to 103.5 or 104.5 to 106.5 mils

Environmental Projects: All products listed comply with LEED 2009 (v3.0) Building Design & Construction (BD+C) Rating System Guidelines. For shop and exterior applications, other Tnemec coatings may be utilized depending on project requirements. Please contact your Tnemec representative, refer to the product data sheets or visit www.tnemec.com for more information.

See back page for brief description of all listed products. Reference the product data sheet for details.

1 The Stranlok system can be applied over other substrates such as steel, wood, Gypsum Board, FRP, etc.

2 Depending upon the color of the primer/intermediate coat or method of application, additional coats may be required to achieve recommended film thickness and/or hiding.

3 Haydite, split-face and lightweight block will require a filler/surfacer to provide a smooth, pin-hole-free surface. Series 1254 EpoxoBlock WB is recommended.

4 Some exterior stucco or plaster finishes may not require Series 151-1051 primer. Contact Tnemec Technical Services for additional information.

5 For additional protection and extension of long term weathering qualities, specify Series 1074U (gloss) or 1075U (semi-gloss).

6 Galvanized Steel and Nonferrous Metal: Surface preparation recommendations will vary depending on substrate and exposure conditions. Contact your Tnemec representative or Tnemec Technical Services for information. Reference Technical Bulletin 10-78, ASTM D6386.

7 Use for field priming of steel.

8 Series 1077 & 1078 metallics are recommended for air spray applications only. Touch-up by brushing or rolling may create a noticeably different finish.

9 Series L69 or V69 may be substituted when lower VOC or HAPS levels are needed.

10 Reference SSPC-SP13/NACE 6 and ICRI Guideline No. 03732.

11 Use Series 206 over primer where a crack-bridging membrane is needed.

12 Slurry/broadcast application requires Series 201 as primer. (Standard double broadcast application is self-priming).

13 Series 237 can be used in lieu of Series 222 for slurry broadcast or double broadcast applications and Series 223 for mortar applications.

14 Topcoat with Series 285 Satinglaze for an orange-peel texture and satin finish. Use Series 295 Clear CRU as a finish coat for added chemical resistance and a gloss finish.

15 Coverage may vary depending on density of the substrate.

16 System recommendations will vary depending on the generic type and condition of the existing system. Please contact your Tnemec representative for an overcoat risk assessment and specific recommendations. Reference SSPC-TU3 or the latest edition of Tnemec Technical Bulletin 98-10.

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SPECIALIZED ARCHITECTURAL: SELECTION GUIDE FOR COATINGS

GYPSUM BOARD — INTERIOR

DRY TO MODERATE — SCRUBBABLE

System Type:	Waterborne Epoxy/Polyurethane
Surface Preparation:	Clean and Dry
Primer:	Series 287 Enviro-Pox, DFT 2.0 to 3.0 mils ^{[19] [20]}
Intermediate Coat: (Optional)	Series 287 Enviro-Pox, DFT 2.0 to 3.0 mils ^{[19] [20]}
Finish Coat:	Series 297 Enviro-Glaze, DFT 2.0 to 3.0 mils ^{[19] [20]}
Total DFT:	6.0 to 9.0 mils

SEVERE, PHYSICAL CONTACT, BATHROOMS, SHOWERS — WET

System Type:	100% Solids Epoxy or 100% Solids Fiberglass Mat Reinforced Epoxy
Surface Preparation:	Clean and Dry
Primer:	Series 201 Epoxoprime, DFT 6.0 to 8.0 mils ^{[2] [19]}
Base Coat: Fiberglass Reinforcing Mat:	Series 273 Stranlok ML, DFT 8.0 to 12.0 mils ^[19] Series 273 Stranlok Mat, 36 in x 180 ft (540 ft ²) per roll ^[19]
Saturant Coat:	Series 273 Stranlok ML, DFT 8.0 to 12.0 mils with reinforcing mat ^[19]
Finish Coat:	Series 280 Tneme-Glaze, DFT 6.0 to 8.0 mils ^[19]
Total DFT:	26.0 to 40.0 mils

WOOD

INTERIOR OR EXTERIOR EXPOSED

System Type:	Waterborne Epoxy/Acrylic or Acrylate
Surface Preparation:	Clean and Dry
Primer (Optional): Topcoat:	Series 151-1051 Elasto-Grip FC, DFT 1.0 to 2.0 mils ^[19] Series 1029 Enduratone (semi-gloss), DFT 2.0 to 3.0 mils ^{[15] [19] [20]}
Finish Coat:	Series 1029 Enduratone (semi-gloss), DFT 2.0 to 3.0 mils ^{[15] [19] [20]}
Total DFT:	4.0 to 6.5 mils or 3.0 to 5.0 mils

OVERCOAT SYSTEM

EXTERIOR EXPOSED

System Type:	Acrylic/Acrylic (Dry-Fall Spray Application)
Surface Preparation:	Please contact Tnemec for recommendation. ^[16]
Primer:	Series 115 Uni-Bond DF, DFT 2.0 to 4.0 mils ^{[2] [19] [20]}
Finish Coat:	Series 1028 or 1029 Enduratone, DFT 2.0 to 3.0 mils ^{[2] [19] [20]}
Total DFT:	4.0 to 7.0 mils

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4 Some exterior stucco or plaster finishes may not require Series 151-1051 primer. Contact Tnemec Technical Services for additional information.

5 For additional protection and extension of long term weathering qualities, specify Series 1074U (gloss) or 1075U (semi-gloss).

6 Galvanized Steel and Nonferrous Metal: Surface preparation recommendations will vary depending on substrate and exposure conditions. Contact your Tnemec representative or Tnemec Technical Services for information. Reference Technical Bulletin 10-78, ASTM D6386.

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8 Series 1077 & 1078 metallics are recommended for air spray applications only. Touch-up by brushing or rolling may create a noticeably different finish.

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10 Reference SSPC-SP13/NACE 6 and ICRI Guideline No. 03732.

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13 Series 237 can be used in lieu of Series 222 for slurry broadcast or double broadcast applications and Series 223 for mortar applications.

14 Topcoat with Series 285 Satinglaze for an orange-peel texture and satin finish. Use Series 295 Clear CRU as a finish coat for added chemical resistance and a gloss finish.

15 Coverage may vary depending on density of the substrate.

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SPECIALIZED ARCHITECTURAL: SELECTION GUIDE FOR COATINGS

SERIES 27WB TYPOXY®

Inorganic Water-Based Epoxy

A versatile low-temperature coating ideally suited for steel fabrication and OEM application. Also widely used as a field tie-coat. Provides fast curing and rapid handling capabilities.

SERIES 94-H₂O HYDRO-ZINC®

Aromatic Urethane, Zinc-Rich

Single-component, moisture-cured, zinc-rich steel primer for interior and exterior steel substrates. It cures quickly and offers rapid recoat at surface temperatures down to 35°F (2°C).

SERIES 115 UNI-BOND DF™

Self-Crosslinking Acrylic

One-coat, flash-rust and corrosion-resistant primer/finish for dry interior overheads. Use on carbon and galvanized steel, aluminum, wood and concrete decks, beams, joists and HVAC. Will dry-fall under certain conditions.

SERIES 151-1051 ELASTO-GRIP®

Waterborne Polyamide Epoxy Primer

Penetrating, flexible and low odor primer for sealing cementitious and other porous substrates. Also excellent as a tie-coat over sound existing coatings.

SERIES 156 & 157 ENVIRO-CRETE®

Waterborne Acrylate Elastomeric Coatings

Water-based coatings provide excellent protection against driving rain, UV light and alternate freeze-thaw cycles. Inherent flexibility allows these coatings to expand and contract with minor substrate movement. Self-priming and available in smooth, textured and extra textured finishes in a variety of colors.

SERIES 180 W.B. TNAME-CRETE®

Acrylic Emulsion

Decorative, high-build protection against weather, driving rain, industrial fumes and alternate freeze-thaw. Formulated to resist mildew growth on the paint film.

SERIES 201 EPOXOPRIME®

Polyamine Epoxy Primer

Multi-purpose, high-solids epoxy coating primarily used as a primer for 100% solids epoxy systems such as Stranlok and Power-Tread. Can also be used as a clear floor sealer.

SERIES 222 DECO-TREAD®

Ceramic-Filled Polyamine Epoxy Floor Topping

Decorative laminate flooring system installed at 1/8" minimum by double broadcast or slurry/broadcast application. Protects against abrasion, impact and mild chemicals with an aesthetically pleasing, easy-to-clean surface. Topcoated with Series 284 Deco-Clear and an optional Series 285 Satinglaze finish.

SERIES 237 POWER-TREAD®

Aggregate-Filled Polyamine Epoxy Floor Topping

A multi-purpose, broadcast, slurry broadcast or mortar applied floor topping system installed at 1/8 inch to 1/4 inch thickness. Protects against impact, abrasion and mild chemicals.

SERIES 243, 244, 245 ULTRA-TREAD®

Polyamine Epoxy Coating

Low-odor, trowelable mortars (Series 245 is a slurry mortar) with high early strength. Resist chemicals, organic acids from food and withstand thermal shock due to hot liquids and aggressive cleaning procedures. Series 243 is for vertical application needs in conjunction with horizontal applications of Series 244 or 245.

SERIES 247 & 248 EVERTHANE™

Aliphatic Moisture Cured Urethane

Extremely hard, chemical-resistant urethane floor coating with superb flow characteristics. Excellent resistance to abrasion, wet conditions, corrosive fumes and chemical contact.

SERIES 270 STRANLOK AND 273 STRANLOK ML®

Polyamine Epoxy

Fiberglass-reinforced coating that protects against acids, alkalis, impact and abrasion. Provides a seamless surface which holds up under rigorous hot water washdowns. Excellent for process area walls. Series 273 utilizes a fiberglass mat.

SERIES 280, 281 & 282 TNAME-GLAZE™

Polyamine Epoxy Coatings

Glaze-like finishes/sealers used over Series 201 Epoxoprime and as part of the MicroClean system. Provide protection against abrasion, chemicals and frequent cleaning. Series 280 and 282 can be used on vertical and horizontal surfaces. Series 282, Novolac, provides extra chemical resistance. Series 281 provides a high-gloss "showroom" finish for floors.

SERIES 284 DECO-CLEAR®

Modified Polyamine Epoxy

Clear finish for use over the Series 222 Deco-Tread flooring system. Protects against mild chemicals, impact and abrasion. Depending on the number of coats, will provide a smooth or skid-resistant finish.

SERIES 287 ENVIRO-POX®

Waterborne Epoxy-Amine Adduct

Low odor, rapid cure, wear-resistant floor coating capable of withstanding frequent spillage of water, oil and grease, and mild to moderate chemical and solvent exposures, as well as repeated cleaning.

SERIES 290 & 291 CRU™

Aliphatic Polyester Polyurethane

Extremely hard, chemical-resistant urethane floor coatings with superb flow characteristics and excellent color retention. Excellent resistance to abrasion, corrosive fumes and chemical contact.

SERIES 294 & 295 CLEAR CRU™

Aliphatic Polyester Polyurethane

A clear version of Series 291 that shares the same resistance to abrasion and chemicals. Provides a protective gloss topcoat to pigmented and decorative flooring systems.

SERIES 297 ENVIRO-GLAZE®

Waterborne Aliphatic Polyurethane

Low odor, fast dry, low VOC, waterborne polyurethane coating for interior wall and floor applications. Provides enhanced abrasion resistance and color stability.

SERIES 617 CONFORMAL™ STAIN WB

100% Acrylic Polymer

Penetrating, water-based masonry stain providing color uniformity by correcting color imperfections. Repels water when used on dense substrates. Resists mildew and contains agents that inhibit the growth of mildew on the surface of the stain.

SERIES V626 DUR A PELL GS™

RTV Silicone Rubber

Provides a clear, non-sacrificial, penetrating barrier against graffiti, as well as water repellency on all uncoated masonry substrates. Formulated to provide superior protection against, and easy removal of, unwanted graffiti. This product is intended for use in conjunction with Series 680 Mark A Way to provide a complete graffiti protection system. Conforms with air pollution regulations limiting Volatile Organic Compounds (VOC).

SERIES 633 PRIME-A-PELL® H₂O

Siloxane/Silane Blend

Resists water intrusion, stain damage, freeze/thaw spalling, efflorescence and rust damage.

SERIES 971 AEROLON® ACRYLIC

Fluid-applied acrylic insulation coating

An innovative, fluid-applied, thermal insulating coating utilizing aerogel particles that imparts exceptional properties to a variety of substrates.

SERIES 1028 & 1029 ENDURATONE®

HDP Acrylic Polymer

Water-based, low VOC, high dispersion pure acrylic polymer coatings providing excellent long term protection in both interior and exterior exposures. May be applied by spray, brush or roller over a variety of solvent and waterborne steel primers. Mildew-resistant and exhibits very good gloss and color stability.

SERIES 1070, 1070V, 1071, 1071V, 1072 & 1072V FLUORONAR®

Thermoset Solution Fluoropolymer

Thermoset solution fluoropolymer coatings that provides the ultimate technology in durability, with exceptional color and gloss retention.

SERIES 1080 & 1081 ENDURA-SHIELD®

Waterborne Acrylic Polyurethane

Provide color and gloss retention for exterior applications to steel, concrete and other miscellaneous substrates. Feature low VOC content, low odor, high gloss finish and easy cleanup.

SERIES 1254 EPOXOBLOCK WB®

Inorganic Hybrid Water-Based Epoxy

An advanced generation, low VOC epoxy coating for filling surface voids in porous concrete and masonry block in interior and exterior environments. Provides high bond strength, fast curing, and rapid overcoating capabilities.