

NEPCOAT Qualified Products List A

for Protective Coatings for **NEW** and **100% BARE EXISTING** Steel for Bridges

| NTPEP | | | Slip | Manuf | r Coating | VOC | QPL |
|--------|-------|---------------------|-------|--------|-----------|--------|----------|
| System | | 3-COAT SYSTEM | Coef | DFT (n | min/max) | Tested | Accepted |
| No. | Coats | TESTED AND ACCEPTED | Class | mil | micron | g/L | Dates |

| NEPCOAT LIST A | - INORGANIC Zinc Rich Primer / Epoxy or Urethane I | Intermed | liate / Ali | iphatic Ureth | nane Finis | s <u>h</u> |
|-----------------------|---|------------------|-------------|---------------|------------|-------------|
| SSC(02) 01 (A7 07) | CARROLINE COMPANY | | | | | from |
| ` ' ` ` ' | CARBOLINE COMPANY | p.1 | 2.6 | 50 150 | 270 | _ |
| Primer | Carbozinc [®] 11 HS Inorganic Zinc Primer | B^{1} | 2-6 | 50-150 | 278 | 2/15/05 |
| Interm | Carboguard® 893 Epoxy Intermediate | | 3-6 | 75-150 | 189 | until |
| Topcoat | Carbothane 133 HB Aliphatic Polyurethane | | 3-7 | 75-175 | 370 | spring 2010 |
| ¹ Footnote | 6 mils max DFT, 18 hrs min cure, 15 oz/gal max thin | | | | | |
| SSC(04)-04* | ICI PAINTS / DEVOE COATINGS | | | | | from |
| Primer | Catha-Coat® 304V Silicate Inorganic Zinc Coating | \mathbf{B}^{1} | 2-4 | 50-100 | 319 | 10/5/06 |
| Interm | Bar-Rust® 231 Multi-Purpose Epoxy Mastic | | 4-8 | 100-200 | 229 | until |
| Topcoat | Devthane® 379UVA Aliphatic Urethane Enamel | | 2-3 | 50-75 | 255 | fall 2010 |
| ¹ Footnote | 3 mils max DFT, 24 hrs min cure, zero max thin'r | | | | | |
| SSC(06)-05* | CARBOLINE COMPANY | | | | | from |
| Primer | Carbozinc® 11 HS Inorganic Zinc Primer | \mathbf{B}^{1} | 2-6 | 50-150 | 323 | 06/21/07 |
| Interm | Carboguard® 893 Epoxy Intermediate | | 3-6 | 75-150 | 200 | until |
| Topcoat | Carbothane 133 LH Aliphatic Polyurethane | | 3-6 | 75-150 | 295 | spring 2011 |
| ¹ Footnote | 6 mils max DFT, 18 hrs min cure, 15 oz/gal max thin | | | | | |

- 2 NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org.
 - 3 Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria.
- 4 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting.
- 5 SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria.
- 6 VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ.
- 7 Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets.
- 8 Any change in coating formulation from that tested will result in removal of the system from the QPL.
- 9 The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31.
- * Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of five bridges painted with the paint system must be submitted within two years. See Acceptance Criteria.
- ** Requalification is per R-31, sect. 12.1, except that the manufacturer has an additional (6th) year to complete the 5-year requalification term if the identical system is being retested at the end of the 5-year term.

¹ Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections. NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT



NEPCOAT Qualified Products List B

for Protective Coatings for **NEW** and **100% BARE EXISTING** Steel for Bridges

| NTPEP System 3-COAT SYSTEM Code DFT (min/max) Tested Accepted | TOTECTIVE | CONTR | NEW and 100% DAKE | CAISI | IIIG 2 | steer for | Bridge | 8 |
|--|-----------------------|-----------------------|--|------------------|-------------|--------------|--------------|--------------------|
| No. Coats TESTED AND ACCEPTED Class mil micron g/L Dates NEPCOAT LIST B - ORGANIC Zinc Rich Primer / Epoxy or Urethane Intermediate / Aliphatic Urethane Finish SSC(03)-02 (B7-97) CARBOLINE COMPANY Primer Carbozine® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-225 326 2/15/05 Interm Carbozine® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-225 331 until Topcoat Carbothane 133 HIB Aliphatic Polyurethane 3-7 75-175 370 spring 2010 SSC(03)-05 AMFRON INTERNATIONAL Primer Amercoat® 68HS Zinc Rich Epoxy Primer Al 1-3 25-75 240 11/17/05 Interm Amercoat® 68HS Zinc Rich Epoxy Primer Amercoat® 68HS Zinc Rich Epoxy Primer Amercoat® 68HS Zinc Rich Epoxy Primer Amercoat® 139 Fast Drying Epoxy 4-8 100-200 182 until mtg. Topcoat Amercoat® 450H Gloss Aliphatic Polyurethane 2-3 50-75 303 fall 2010 SSC(03)-12* INTERNATIONAL PAINT INC Primer Interzinc® 52 Epoxy Zinc Rich Primer Intergrad 475HS Epoxy (not 4-8 100-200 191 until Interzinc® 52 Epoxy Zinc Rich Literature Intergrad 475HS Epoxy (not 4-8 100-200 191 until Interzinc® 10 Footnote The test was not performed. SSC(04)-02 CARBOLINE COMPANY Primer Carbozinc® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 327 11/17/05 Interm Carbozinc® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-8 75-200 320 until mtg. Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Pol | NTPEP | | | Slip | Manuf | r Coating | VOC | QPL |
| No. Coats TESTED AND ACCEPTED Class mil micron g/L Dates NEPCOAT LIST B - ORGANIC Zinc Rich Primer / Epoxy or Urethane Intermediate / Aliphatic Urethane Finish SSC(03)-02 (B7-97) CARBOLINE COMPANY Primer Carbozine® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-225 326 2/15/05 Interm Carbozine® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-225 331 until Topcoat Carbothane 133 HIB Aliphatic Polyurethane 3-7 75-175 370 spring 2010 SSC(03)-05 AMFRON INTERNATIONAL Primer Amercoat® 68HS Zinc Rich Epoxy Primer Al 1-3 25-75 240 11/17/05 Interm Amercoat® 68HS Zinc Rich Epoxy Primer Amercoat® 68HS Zinc Rich Epoxy Primer Amercoat® 68HS Zinc Rich Epoxy Primer Amercoat® 139 Fast Drying Epoxy 4-8 100-200 182 until mtg. Topcoat Amercoat® 450H Gloss Aliphatic Polyurethane 2-3 50-75 303 fall 2010 SSC(03)-12* INTERNATIONAL PAINT INC Primer Interzinc® 52 Epoxy Zinc Rich Primer Intergrad 475HS Epoxy (not 4-8 100-200 191 until Interzinc® 52 Epoxy Zinc Rich Literature Intergrad 475HS Epoxy (not 4-8 100-200 191 until Interzinc® 10 Footnote The test was not performed. SSC(04)-02 CARBOLINE COMPANY Primer Carbozinc® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 327 11/17/05 Interm Carbozinc® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-8 75-200 320 until mtg. Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 135 LH Aliphatic Pol | System | | 3-COAT SYSTEM | Coef | DFT (| min/max) | Tested | Accepted |
| SSC(03)-02 (BF-97) CARBOLINE COMPANY Primer Carbozine® 859 Organic Zine Rich Epoxy Primer B 3-10 75-225 331 until Topcoat Carbothane 133 HB Aliphatic Polyurethane 3-7 75-175 370 spring 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin Footnote Foo | No. | Coats | | Class | mil | micron | g/L | Dates |
| SSC(03)-02 (B7-97) CARBOLINE COMPANY Primer Carbozine® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-225 326 2/15/05 Interm Carboguard® 888 Epoxy Polyamide 3-10 75-225 331 until Topcoat Carbothane 133 HB Aliphatic Polyurethane 3-7 75-175 370 spring 2010 ¹ Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin SSC(03)-05 AMERON INTERNATIONAL Primer Amercoat® 68HS Zinc Rich Epoxy Primer A¹ 1-3 25-75 240 11/17/05 Interm Amercoat® 399 Fast Drying Epoxy 4-8 100-200 182 until mtg. Topcoat Amercoat® 450H Gloss Aliphatic Polyurethane 2-3 50-75 303 fall 2010 ¹ Footnote Slip coefficient does not meet Class B requirements SSC(03)-12* INTERNATIONAL PAINT INC Primer Intergranc® 52 Epoxy Zinc Rich 0 2-3 50-75 364 2/15/05 Interm Intergrand 475HIS Epoxy (not 4-8 100-200 191 until Topcoat Interfine® 579 Polysiloxane tested) 3-6 75-150 206 spring 2010 Ø Footnote The test was not performed. SSC(04)-02 CARBOLINE COMPANY Primer Carbozine® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 327 11/17/05 Interm Carboguard® 888 Epoxy Polyamide 3-8 75-200 320 until mtg. Topcoat Carbothane 133 I.H Aliphatic Polyurethane 3-6 75-150 311 fall 2010 ¹ Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed botted connections NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT NTPEP (Nat') Transport in Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org. Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria. Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 1b/gal). Individual state requirements for VOC limits may differ. Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). | | n | | | | | | |
| Primer Carbozine® 859 Organic Zinc Rich Epoxy Primer B 3-10 75-225 326 2/15/05 Interm Carboguard® 888 Epoxy Polyamide 3-10 75-225 331 until Topcoat Carbothane 133 HB Aliphatic Polyurethane 3-7 75-175 370 spring 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin SSC(03)-05 AMERON INTERNATIONAL from Ameroat® 6 Mils Zinc Rich Epoxy Primer A 1-3 25-75 240 11/17/05 Interm Ameroat® 399 Fast Drying Epoxy 4-8 100-200 182 until mtg. Topcoat Amercoat® 450H Gloss Aliphatic Polyurethane 2-3 50-75 303 fall 2010 Footnote Slip coefficient does not meet Class B requirements SSC(03)-12* INTERNATIONAL PAINT INC from Interzinc® 52 Epoxy Zinc Rich Ø 2-3 50-75 364 2/15/05 Interm Intergard 475HS Epoxy (not 4-8 100-200 191 until Topcoat Interline® 979 Polysiloxane tested) 3-6 75-150 206 spring 2010 Footnote The test was not performed. SSC(04)-02 CARBOLINE COMPANY from Carboziane® 888 Epoxy Polyamide 3-8 75-200 327 11/17/05 Interm Carboziane® 889 Organic Zinc Rich Epoxy Primer B 3-10 75-250 327 11/17/05 Interm Carboziane® 889 Epoxy Polyamide 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin (List B continues) (List B c | NEPCOAT | LIST B | - ORGANIC Zinc Rich Primer / Epoxy or Urethane In | termediate | e / Aliph | atic Urethai | ne Finish | |
| Primer Carbozine® 859 Organic Zinc Rich Epoxy Primer B 3-10 75-225 326 2/15/05 Interm Carboguard® 888 Epoxy Polyamide 3-10 75-225 331 until Topcoat Carbothane 133 HB Aliphatic Polyurethane 3-7 75-175 370 spring 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin SSC(03)-05 AMERON INTERNATIONAL from Ameroat® 6 Mils Zinc Rich Epoxy Primer A 1-3 25-75 240 11/17/05 Interm Ameroat® 399 Fast Drying Epoxy 4-8 100-200 182 until mtg. Topcoat Amercoat® 450H Gloss Aliphatic Polyurethane 2-3 50-75 303 fall 2010 Footnote Slip coefficient does not meet Class B requirements SSC(03)-12* INTERNATIONAL PAINT INC from Interzinc® 52 Epoxy Zinc Rich Ø 2-3 50-75 364 2/15/05 Interm Intergard 475HS Epoxy (not 4-8 100-200 191 until Topcoat Interline® 979 Polysiloxane tested) 3-6 75-150 206 spring 2010 Footnote The test was not performed. SSC(04)-02 CARBOLINE COMPANY from Carboziane® 888 Epoxy Polyamide 3-8 75-200 327 11/17/05 Interm Carboziane® 889 Organic Zinc Rich Epoxy Primer B 3-10 75-250 327 11/17/05 Interm Carboziane® 889 Epoxy Polyamide 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin (List B continues) (List B c | | | | | | | | |
| Interm Carboguard* 888 Epoxy Polyamide 3-10 75-225 331 until Topcoat Carbothane 133 HB Aliphatic Polyurethane 3-7 75-175 370 spring 2010 SSC(03)-05 AMERON INTERNATIONAL Primer Amercoat* 699 Fast Drying Epoxy 4-8 100-200 182 until mtg. Topcoat Amercoat* 450H Gloss Aliphatic Polyurethane 2-3 50-75 303 fall 2010 Footnote Slip coefficient does not meet Class B requirements SSC(03)-12* INTERNATIONAL PAINT INC Primer Intergrad 475HS Epoxy Zine Rich Ø 2-3 50-75 364 27/15/05 Interm Intergrad 475HS Epoxy Zine Rich Ø 2-3 50-75 364 27/15/05 Interm Intergrad 475HS Epoxy Zine Rich Ø 2-3 50-75 364 27/15/05 Interm Intergrad 475HS Epoxy Zine Rich Ø 2-3 50-75 364 27/15/05 Interm Carboguard* 889 Organic Zine Rich Epoxy Primer B 3-10 75-250 327 11/17/05 Interm Carboguard* 889 Organic Zine Rich Epoxy Primer B 3-10 75-250 320 until mtg. Topcoat Interma Carboguard* 888 Epoxy Polyamide 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Continues City B continues Class B continues (List B continues) (| SSC(03)-02 | (B7-97) | CARBOLINE COMPANY | | | | | from |
| Topcoat Carbothane 133 HB Aliphatic Polyurethane Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin SSC(03)-05 AMERON INTERNATIONAL Primer Amercoat® 68HS Zine Rich Epoxy Primer A¹ 1-3 25-75 240 11/17/05 Interm Amercoat® 399 Fast Drying Epoxy Topcoat Amercoat® 450H Gloss Aliphatic Polyurethane 2-3 50-75 303 fall 2010 Footnote Slip coefficient does not meet Class B requirements SSC(03)-12* INTERNATIONAL PAINT INC Primer Interzinc® 52 Epoxy Zine Rich Description (not 4-8 100-200 191 until mg. Topcoat Interfine® 979 Polysiloxane tested) 3-6 75-150 206 spring 2010 Footnote The test was not performed. SSC(04)-02 CARBOLINE COMPANY Primer Carbozinc® 859 Organic Zine Rich Epoxy Primer B¹ 3-10 75-250 327 11/17/05 Interm Carbozinc® 859 Organic Zine Rich Epoxy Primer B¹ 3-10 75-250 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-8 75-200 320 until mtg. Topcoat Carbothane 135 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin (continues) Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT 2 NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org. 3 Accelerated lab and field testing of coating systems is performed according to AASHTTO NTPEP R-31 criteria. 4 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. SSC(07)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. 4 OVO values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. 7 Recommended DFT values are listed by manuf | | Primer | Carbozinc® 859 Organic Zinc Rich Epoxy Primer | B^{1} | 3-10 | 75-225 | 326 | 2/15/05 |
| Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin | İ | Interm | Carboguard® 888 Epoxy Polyamide | | 3-10 | 75-225 | 331 | until |
| SSC(03)-05 AMERON INTERNATIONAL Primer Amercoat® 68HS Zine Rich Epoxy Primer A¹ 1-3 25-75 240 11/17/05 Interm Amercoat® 399 Fast Drying Epoxy 4-8 100-200 182 until Intg. Topcoat Amercoat® 450H Gloss Aliphatic Polyurethane Footnote Slip coefficient does not meet Class B requirements SSC(03)-12* INTERNATIONAL PAINT INC Primer Interzinc® 52 Epoxy Zine Rich 0 2-3 50-75 364 2/15/05 Interm Intergard 475HS Epoxy (not 4-8 100-200 191 until operation of Footnote The test was not performed. SSC(04)-02 CARBOLINE COMPANY Primer Carbozinc® 859 Organic Zine Rich Epoxy Primer B¹ 3-10 75-250 327 11/17/05 Interm Carbozinc® 859 Organic Zine Rich Epoxy Primer B¹ 3-10 75-250 320 until Intg. Topcoat Interne Carbozinc® 888 Epoxy Polyamide 3-8 75-200 320 until Intg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin (continues) (List B continues) I Footnote NOTE 1 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. SSC(07)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. SSC(07)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT acceptance Criteria. Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. SSC(07)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from that tested will result in removal of the system from the QPL. Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from that tested will result in removal of the system from the QPL. | | Topcoat | Carbothane 133 HB Aliphatic Polyurethane | | 3-7 | 75-175 | 370 | spring 2010 |
| Primer Amercoat® 68HS Zinc Rich Epoxy Primer A¹ 1-3 25-75 240 11/17/05 Interm Amercoat® 399 Fast Drying Epoxy 4-8 100-200 182 until mtg. Topcoat Amercoat® 450H Gloss Aliphatic Polyurethane 2-3 50-75 303 fall 2010 Footnote Slip coefficient does not meet Class B requirements SSC(03)-12* INTERNATIONAL PAINT INC from Interzinc® 52 Epoxy Zinc Rich 0 2-3 50-75 364 2/15/05 Interm Interm Intergard 475HS Epoxy (not 4-8 100-200 191 until Topcoat Interfine® 979 Polysiloxane tested) 3-6 75-150 206 spring 2010 0 Footnote The test was not performed. SSC(04)-02 CARBOLINE COMPANY from Carbozinc® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 327 11/17/05 Interm Carbozinc® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin (List B continues) (List B continues) (List B continues) (Continues) (List B continues) (List B continues) (List B continues) SSC(07+NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org. 3 Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria. 4 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. 5 SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. 4 VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. 7 Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from that tested will result in removal of the system from the QPL. The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. | 1 | Footnote | $6\ \text{mils}$ max DFT, $4\ \text{days}$ min cure, $10\%\ \text{vol}$ max thin | | | | | |
| Primer Amercoat® 68HS Zinc Rich Epoxy Primer A¹ 1-3 25-75 240 11/17/05 Interm Amercoat® 399 Fast Drying Epoxy 4-8 100-200 182 until mtg. Topcoat Amercoat® 450H Gloss Aliphatic Polyurethane 2-3 50-75 303 fall 2010 Footnote Slip coefficient does not meet Class B requirements SSC(03)-12* INTERNATIONAL PAINT INC from Interzinc® 52 Epoxy Zinc Rich 0 2-3 50-75 364 2/15/05 Interm Interm Intergard 475HS Epoxy (not 4-8 100-200 191 until Topcoat Interfine® 979 Polysiloxane tested) 3-6 75-150 206 spring 2010 0 Footnote The test was not performed. SSC(04)-02 CARBOLINE COMPANY from Carbozinc® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 327 11/17/05 Interm Carbozinc® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin (List B continues) (List B continues) (List B continues) (Continues) (List B continues) (List B continues) (List B continues) SSC(07+NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org. 3 Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria. 4 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. 5 SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. 4 VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. 7 Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from that tested will result in removal of the system from the QPL. The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. | SSC(03)-05 | | AMERON INTERNATIONAL | | | | | from |
| Interm Amercoat® 399 Fast Drying Epoxy 4-8 100-200 182 until mtg. Topcoat Amercoat® 450H Gloss Aliphatic Polyurethane 2-3 50-75 303 fall 2010 **Footnote** **SSC(03)-12** **INTERNATIONAL PAINT INC Frimer Interzinc® 52 Epoxy Zinc Rich 0 2-3 50-75 364 2/15/05 Interm Intergard 475HS Epoxy (not 4-8 100-200 191 until Topcoat Interfinc® 979 Polysiloxane tested) 3-6 75-150 206 spring 2010 0 Footnote The test was not performed. **SSC(04)-02** **CARBOLINE COMPANY Frimer Carbozinc® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 327 11/17/05 Interm Carbozinc® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 **Topcoat** **Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 **Tootnote** **Continues** **Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections NOTE 1 NEPCOAT** **NOTE 1** **NOTE 1** **NOTE 1** **NEPCOAT** **NORTHEAST* **PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT 2 NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org. 3 Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria. 4 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. 5 SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. 6 VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. 7 Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. 8 Any change in coating formulation from that tested will result in removal of the system from the QPL. The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. **Acceptance is CON | | | | A^{1} | 1-3 | 25-75 | 240 | |
| Topcoat Amercoat® 450H Gloss Aliphatic Polyurethane Footnote Sip coefficient does not meet Class B requirements | | | | - | | | | |
| SSC(03)-12* INTERNATIONAL PAINT INC Primer Interzinc® 52 Epoxy Zinc Rich O 2-3 50-75 364 2/15/05 Interm Intergard 475HS Epoxy (not 4-8 100-200 191 until Topcoat Interfinc® 979 Polysiloxane tested) 3-6 75-150 206 spring 2010 O Footnote The test was not performed. SSC(04)-02 CARBOLINE COMPANY Primer Carbozinc® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 327 11/17/05 Interm Carboguard® 888 Epoxy Polyamide 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin (continues) Continues) (List B continues) (List B continues) Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org. Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria. A Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. SCC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from that tested will result in removal of the system from the QPL. The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. | | | | | | | | _ |
| Primer Interzinc® 52 Epoxy Zinc Rich | 1 | - | - · · · · · · · · · · · · · · · · · · · | | | | | |
| Primer Interzinc® 52 Epoxy Zinc Rich | CCC(02) 12* | | INTERNATIONAL DAINT INC | | | | | from |
| Interm Intergard 475HS Epoxy (not 4-8 100-200 191 until Topcoat Interfine® 979 Polysiloxane tested) 3-6 75-150 206 spring 2010 Ø Footnote The test was not performed. SSC(04)-02 CARBOLINE COMPANY from Carbozinc® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 327 11/17/05 Interm Carboguard® 888 Epoxy Polyamide 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin (List B continues) (List B continues) I Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org. Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria. SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. * Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of | 33C(03)-12 | | | α | 2.2 | 50.75 | 264 | |
| Topcoat Interfine® 979 Polysiloxane tested) 3-6 75-150 206 spring 2010 SSC(04)-02 CARBOLINE COMPANY from Carbozine® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 327 11/17/05 Interm Carbozine® 888 Epoxy Polyamide 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin (List B continues) (List B continues) NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org. Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria. Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. SSC(yt)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of | | | ÷ • | | | | | |
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| SSC(04)-02 CARBOLINE COMPANY Primer Carbozinc® 859 Organic Zinc Rich Epoxy Primer B¹ 3-10 75-250 327 11/17/05 Interm Carboguard® 888 Epoxy Polyamide 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin (continues) (List B continues) (List B continues) NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT NTPEP (Nat'l Transport'n Product Evaluar'n Program). See Structural Steel Coating test data at http://data.ntpep.org. Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria. Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from that tested will result in removal of the system from the QPL. The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. | | | | testeu) | 3-0 | /3-130 | 200 | spring 2010 |
| Primer Carbozinc® 859 Organic Zinc Rich Epoxy Primer B 1 3-10 75-250 327 11/17/05 Interm Carboguard® 888 Epoxy Polyamide 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 1 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin (continues) (List B continues) (List B continues) NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org. Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria. Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from that tested will result in removal of the system from the QPL. The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of | K | roomote | The test was not performed. | | | | | |
| Interm Carboguard® 888 Epoxy Polyamide 3-8 75-200 320 until mtg. Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 (Continues) (List B continues) (List B continues) (List B continues) NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org. Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria. Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from that tested will result in removal of the system from the QPL. The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of | SSC(04)-02 | | CARBOLINE COMPANY | | | | | from |
| Topcoat Carbothane 133 LH Aliphatic Polyurethane 3-6 75-150 311 fall 2010 Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin (continues) (List B continues) NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org. Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria. Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from that tested will result in removal of the system from the QPL. The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of | | Primer | Carbozinc® 859 Organic Zinc Rich Epoxy Primer | \mathbf{B}^{1} | 3-10 | 75-250 | 327 | 11/17/05 |
| Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin (Continues) (List B continues) (List B continues (List B continues) (List B continues | | Interm | Carboguard® 888 Epoxy Polyamide | | 3-8 | 75-200 | 320 | until mtg. |
| (Continues) (List B continues) (List B continues) (List B continues) (List B continues) Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections. NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org. Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria. Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from that tested will result in removal of the system from the QPL. The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. * Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of | | Topcoat | Carbothane 133 LH Aliphatic Polyurethane | | 3-6 | 75-150 | 311 | fall 2010 |
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| VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ. Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from that tested will result in removal of the system from the QPL. The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of | 4 | Systems | are accepted for use on NEW and 100% BARE EXIST | ING steel | for bridg | ges cleaned | by abrasiv | e blasting. |
| state requirements for VOC limits may differ. Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from that tested will result in removal of the system from the QPL. The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. * Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of | 5 | SSC(yr)- | xx systems comply with AASHTO R-31 Evaluation Pr | actice & N | NEPCOA | T Acceptai | nce Criteri | a. |
| Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets. Any change in coating formulation from that tested will result in removal of the system from the QPL. The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. * Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of | 6 | | | COAT max | x VOC li | mit is 420 g | g/L (3.5 lb/ | gal). Individual |
| Any change in coating formulation from that tested will result in removal of the system from the QPL. The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of | 7 | | - | EP DataM | Iine Test | 7). Also c | heck Produ | act Data Sheets |
| The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31. * Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of | | | · · · · · · · · · · · · · · · · · · · | | | | | and Silvers. |
| * Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of | | - | | | - | | | z. See R-31 |
| receptance is constitute penantig such motion within roar years or successful 2 year nera motory. It startup not or | | | | | | | _ | |
| | | - | | - | | - | - | - |

requalification term if the identical system is being retested at the end of the 5-year term.

Requalification is per R-31, sect. 12.1, except that the manufacturer has an additional (6th) year to complete the 5-year



NEPCOAT Qualified Products List B

Slip

Manuf'r Coating

OPL

for Protective Coatings for **NEW** and **100% BARE EXISTING** Steel for Bridges

| System | 3-COAT SYSTEM | EM Coef | | DFT (min/max) | | Accepted | |
|------------------------------|--|------------------|------------|---------------|------------|-------------------|--|
| No. Coats | TESTED AND ACCEPTED | Class | mil | micron | g/L | Dates | |
| NEPCOAT LIST I | - ORGANIC Zinc Rich Primer / Epoxy or Urethane In | termediate | e / Aliph | atic Urethai | ne Finish | | |
| SSC(04)-03 | SHERWIN WILLIAMS COMPANY | | | | | from | |
| Primer | Zinc Clad® III HS Organic Zinc Rich Epoxy Primer | \mathbf{B}^{1} | 3-5 | 75-125 | 330 | 11/17/05 | |
| Interm | Macropoxy® 646 Fast Cure Epoxy | | 3-10 | 75-250 | 191 | until mtg. | |
| Торсо | at Acrolon [™] 218 HS Acrylic Polyurethane | | 3-6 | 75-150 | 280 | fall 2010 | |
| ¹ Footno | te 5 mils max DFT, 7 days min cure, zero thinner | | | | | | |
| SSC(05)-02* | MAB PAINTS | | | | | from | |
| Primer | Ply-Tile Epoxy Organic Zinc Rich Primer | 1 | 3-5 | 75-125 | 404 | 10/5/06 | |
| Interm | Ply-Mastic 650 High Build Epoxy Coating | | 4-6 | 100-150 | 270 | until | |
| Торсо | at Ply-Thane 890 HS Aliphatic Acrylic Urethane | | 2-4 | 50-100 | 256 | fall 2010 | |
| ¹ Footno | te Slip coefficient is under retest | | | | | | |
| SSC(06)-11* | CARBOLINE COMPANY | | | | | from | |
| Primer | Carbozinc® 859 Organic Zinc Rich Epoxy Primer | \mathbf{B}^{1} | 3-10 | 75-250 | 327 | 4/7/09 | |
| Interm | Carboguard® 893 Epoxy Polyamide | | 3-10 | 75-250 | 200 | until mtg. | |
| Торсо | at Carbothane 133 LH Aliphatic Polyurethane | | 3-6 | 75-150 | 311 | spring 2013 | |
| ¹ Footno | te 6 mils max DFT, 4 days min cure, 10% vol max thin | | | | | | |
| SSC(07)-02* | INTERNATIONAL PAINT INC | | | | | from | |
| Primer | Interzinc® 315B Epoxy Zinc Rich | Ø | 2-6 | 50-150 | 291 | 4/7/09 | |
| Interm | | (not | 4-8 | 100-200 | 177 | until mtg. | |
| Торсо | at Interthane® 870 UHS | tested) | 3-5 | 75-125 | 171 | spring 2013 | |
| - | te The test was not performed. | | | | | - - | |
| ¹ Footnote Inform | ation from the Slip-Coefficient and Creep Resistance Tes | st Certifica | te is give | en for use w | / primed b | olted connections | |

Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections.

NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT

- NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org.
 - 3 Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria.
 - 4 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting.
 - 5 SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria.
 - WOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ.
 - 7 Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets.
 - 8 Any change in coating formulation from that tested will result in removal of the system from the QPL.
 - 9 The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31.
 - * Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of five bridges painted with the paint system must be submitted within two years. See Acceptance Criteria.
 - ** Requalification is per R-31, sect. 12.1, except that the manufacturer has an additional (6th) year to complete the 5-year requalification term if the identical system is being retested at the end of the 5-year term.



NEPCOAT Qualified Products List B

for Protective Coatings for **NEW** and **100% BARE EXISTING** Steel for Bridges

| NTPEP | | | Slip | Manuf | r Coating | VOC | QPL |
|--------|-------|----------------------|-------|-------|-----------|--------|----------|
| System | | 3-COAT SYSTEM | Coef | DFT (| min/max) | Tested | Accepted |
| No. | Coats | TESTED AND ACCEPTED | Class | mil | micron | g/L | Dates |

NEPCOAT LIST ${f B}$ - ORGANIC Zinc Rich Primer / Epoxy or Urethane Intermediate / Aliphatic Urethane Finish

| SSC(08)-07* | | CARBOLINE COMPANY | | | | | from | |
|--|--|--|------------------|------|--------|-----|------------|--|
| Primer Carbo | | Carbozinc® 859 PRIMER | \mathbf{B}^{1} | 3-10 | 75-250 | 331 | 10/07/09 | |
| Iı | Interm Carboguard® 825 Epoxy Polyamide | | | 3-10 | 75-250 | 305 | until mtg. | |
| Topcoat Carbothane 133 LH Aliphatic Polyurethane | | Carbothane 133 LH Aliphatic Polyurethane | | 3-6 | 75-150 | 317 | fall 2013 | |
| 1 E | aatnata | A mile may DET 10 hour min ours 50/ vol may thin | | | | | | |

Footnote 4 mils max DFT, 48 hour min cure, 5% vol max thin

¹ Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections. NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT

- NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org.
 - 3 Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria.
 - 4 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting.
 - SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria. 5
 - VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ.
 - 7 Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets.
 - Any change in coating formulation from that tested will result in removal of the system from the QPL. 8
 - The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31.
 - Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of five bridges painted with the paint system must be submitted within two years. See Acceptance Criteria.
 - Requalification is per R-31, sect. 12.1, except that the manufacturer has an additional (6th) year to complete the 5-year requalification term if the identical system is being retested at the end of the 5-year term.

Meeting/Effective Date: /5/96, 9/4/96, 1/8/97, 7/22/97, 5/20/98, 3/3/99, 9/22/99, 3/30/00, 11/8/00, 3/28/01, 5/14/01, 11/20/01, 11/29/01, 4/24/02, 2/24/03, 4/17/03, 3/16/04, 2/15/05, 4/19/05 R1, 11/17/05 R1, 10/5/06 R1, 06/21/07, 10/16/08, 4/7/09 R1, 10/7/09 R1



NEPCOAT Qualified Products List C

for Protective Coatings for **NEW** and **100% BARE EXISTING** Steel for Bridges

| NTPEP | | | Slip | Manuf | r Coating | VOC | QPL |
|--------|-------|---------------------|-------|-------|-----------|--------|----------|
| System | | 2-COAT SYSTEM 10 | Coef | DFT (| min/max) | Tested | Accepted |
| No. | Coats | TESTED AND ACCEPTED | Class | mil | micron | g/L | Dates |

| NEPCOAT LIST | - ORGANIC Zinc Rich Primer / / Topcoat |
|--------------|--|

| SSC(02)-04 | | SHERWIN WILLIAMS COMPANY | | | | | from |
|------------|---------|--|---------|-------|---------|-----|-------------|
| ` ' | Primer | Corothane® I Galvapac One Pack Zinc Primer | B^{1} | 3.5-4 | 90-100 | 298 | 4/19/05 |
| | Interm | | | | | | until |
| | Topcoat | Fast Clad® Urethane | | 6-9 | 150-225 | 263 | spring 2010 |
| 1 | _ | | | | | | |

¹ Footnote 4 mils max DFT, 24 hrs min cure

Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections.

NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT

- NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org.
- 3 Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria.
- 4 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting.
- 5 SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria.
- VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ.
- 7 Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets.
- 8 Any change in coating formulation from that tested will result in removal of the system from the QPL.
- 9 The QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31.
- * Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of five bridges painted with the paint system must be submitted within two years. See Acceptance Criteria.
- ** Requalification is per R-31, sect. 12.1, except that the manufacturer has an additional (6th) year to complete the 5-year requalification term if the identical system is being retested at the end of the 5-year term.



NEPCOAT Acceptance Criteria List A, B, C

for Protective Coatings for **NEW** and **100% BARE EXISTING** Steel for Bridges

AASHTO R31-Testing Standard & NEPCOAT Acceptance Criteria (3/16/04, 2/15/05, 10/16/08, 4/7/09)

TEST NO. 1 - SLIP COEFFICIENT

<u>Primer</u> Acceptance criteria (min.)

IOZ Slip coefficient 0.5 (Class B) required

OZ Report results only

TEST NO. 2 - SALT FOG RESISTANCE (ASTM B117)

Delamination Acceptance criteria: no delamination allowed

Rust / Blistering Acceptance criteria (max.):

//------ RUST CRITERIA ------// -- BLISTER CRITERIA--

<u>@ Hrs</u> <u>max creep ave creep % length in scribe</u> Primer Convers'n# System @ Hrs not req'd not req'd IOZ P-I-T 5000 4 mm 2 mm 4000 8 not req'd not req'd P-I-T 5000 4000 7 OZ8 mm 2 mm

TEST NO. 3 - CYCLIC WEATHERING RESISTANCE (ASTM D5894)

Delamination Acceptance criteria: no delamination allowed

Rust / Blistering Acceptance criteria (max.):

//----- RUST CRITERIA -----// -- BLISTER CRITERIA--

max creep ave creep % length in scribe @ Hrs Convers'n# Primer System @ Hrs not req'd not req'd P-I-T 4032 IOZ 5040 4 mm 2 mm 9 not req'd not req'd 8 P-I-T 5040 8 mm 4 mm 4032 OZ

GLOSS value Acceptance criteria: Report results only GLOSS % Retent'n Acceptance criteria: Report results only COLOR Change, Δe Acceptance criteria: Report results only

TEST NO. 4 - ABRASION RESISTANCE (ASTM D4060)

Weight Loss Acceptance criteria: Report results only
Wear Index Acceptance criteria: Report results only

TEST NO. 5 - ADHESION (ASTM D4541)

Pull-Off Strength Acceptance criteria (min.) for both primer and PIT panels:

IOZ 2.4 MPa (350 psi) OZ 4.1 MPa (600 psi)

TEST NO. 6 - FREEZE THAW STABILITY

Pull-Off Strength Acceptance criteria: achieve min. Test 5 req'd PIT adhesion results and fall within 60% of Test 5 values

TEST NO. 7 - COATING IDENTIFICATION TESTS

VOC Acceptance criteria: Max. 420 g/L (3.5 lb/gal). Individual state requirements may differ.

Coating properties Acceptance criteria: Report only

Coating thickness Acceptance criteria: A 2-coat system shall be tested and applied at min. total 9 mils DFT.

(continued)



NEPCOAT Acceptance Criteria List A, B, C

for Protective Coatings for **NEW** and **100% BARE EXISTING** Steel for Bridges

AASHTO R31-Testing Standard & NEPCOAT Acceptance Criteria (3/16/04, 2/15/05, 10/16/08, 4/7/09)

TEST NO. 8 - ATMOSPHERIC EXPOSURE (TWO YEAR) at ocean beach site

Acceptance criteria: To be determined / Report results

ITEM NO. 9 - FIELD HISTORY (TWO YEAR)

Acceptance criteria: (All systems after SSC 06-05) The coating manufacturer must submit two notifications;

- (1) a startup list within two years of product acceptance identifying five bridges (in a cold/wet climatic region) which have been coated with a minimum of 400 liters (100 gallons) of the coating system (i.e. total volume of primer, intermediate and topcoat); and
- (2) the same list of bridges within four years of product acceptance after the system has two years (min.) of successful field performance. "Successful performance" is simply defined as whether the Owner is satisfied with its application and performance to date, and whether the Owner would recommend the use of the coating again.

PRODUCT VERIFICATION TESTING

AASHTO R-31 Appendix recommends that the Owner perform product verification testing for determining if the coatings supplied to a project are the same quality as the manufacturer's materials originally tested and certified for acceptance.

The R-31 Test 7- Coating Identification Tests are described in Sect. 9 and Appendix X1, and the lab test results are given in NTPEP DataMine (http://data.ntpep.org) along with the manufacturer's listed values.

When the Owner performs verification testing, the following tolerances apply:

| Verification Test | R-31 Section | R-31 App X1 | ASTM Test | DataMine Test 7 | Tolerance * |
|--------------------------|--------------|-------------|------------------|------------------------|--------------------|
| Total solids (% by mass) | 9.7.13.1 | X1.1.1.1.6 | D 2369 | Line 2 | ± 5 % |
| Pigment (% by mass) | 9.7.13.5 | " 8 | D 2371 | " 3 | ± 5 % |
| Mass per volume (g/L) | 9.7.13.8 | " 5 | D 1475 | " 6 | ± 2 % |
| Viscosity (Stormer) | 9.7.13.9 | " 4 | D 562 | " 7 | ±8 % |

^{*} The tolerance is applied to the DATAMINE "test result" value (not the manufacturer's "listed value"). These tolerances apply to the primer and intermediate coats each in their mixed condition (not Part A, Part B components). For topcoats, if the color is different from the original color in NTPEP testing, then these tolerances apply to the Owner's verification test values the first time a particular color is used.