# NEPCOAT Qualified Products List A

for Protective Coatings for

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

<table>
<thead>
<tr>
<th>NTPEP System</th>
<th>Slip Coating</th>
<th>Manuf’r Coating</th>
<th>VOC</th>
<th>QPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coats</td>
<td>Tested</td>
<td>Accepted</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NEPCOAT LIST A** - INORGANIC Zinc Rich Primer / Epoxy or Urethane Intermediate / Aliphatic Urethane Finish

<table>
<thead>
<tr>
<th>System</th>
<th>Coats</th>
<th>Tested</th>
<th>Accepted</th>
<th>Coef</th>
<th>DFT (min/max)</th>
<th>Date</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SSC(06)-05</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbozinc® 11 HS Inorganic Zinc Primer</td>
<td>B&lt;sup&gt;1&lt;/sup&gt;</td>
<td>2-6</td>
<td>50-150</td>
<td>323</td>
<td>06/21/07</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carboguard® 893 Epoxy Intermediate</td>
<td>3-6</td>
<td>75-150</td>
<td>200</td>
<td>until mtg.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carbothane 133 LH Aliphatic Polyurethane</td>
<td>3-6</td>
<td>75-150</td>
<td>295</td>
<td>spring 2014</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Footnote: 6 mils max DFT, 18 hrs min cure, 15 oz/gal max thin</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>System</th>
<th>Coats</th>
<th>Tested</th>
<th>Accepted</th>
<th>Coef</th>
<th>DFT (min/max)</th>
<th>Date</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SSC(09)-01*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zinc Clad® DOT Inorganic Zinc Rich Primer</td>
<td>B&lt;sup&gt;1&lt;/sup&gt;</td>
<td>2-4</td>
<td>50-100</td>
<td>336</td>
<td>11/09/2010</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steel Spec Epoxy Intermediate</td>
<td>3-6</td>
<td>75-150</td>
<td>301</td>
<td>until mtg.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>High Solids Polyurethane</td>
<td>3-5</td>
<td>75-125</td>
<td>281</td>
<td>fall 2014</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Footnote: 4 mils max DFT, 48 hours min cure, 4% max thinner</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>System</th>
<th>Coats</th>
<th>Tested</th>
<th>Accepted</th>
<th>Coef</th>
<th>DFT (min/max)</th>
<th>Date</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>SSC(10)-02*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interzinc® 22 HS Inorganic Zinc Rich</td>
<td>B&lt;sup&gt;1&lt;/sup&gt;</td>
<td>2.5-3</td>
<td>62-75</td>
<td>324</td>
<td>12/14/2011</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>475HS Epoxy</td>
<td>4-8</td>
<td>100-200</td>
<td>200</td>
<td>until mtg.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interthane® 870 UHS</td>
<td>3-5</td>
<td>75-125</td>
<td>232</td>
<td>es fall 2015</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
- 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 full QPL term is seven years starting from the date of acceptance until the next biannual NEPCOAT meeting.
- 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.
- Note that R-31 Section 12.1, Requalification Testing, has been discontinued.

es VOC value adjusted for exempt solvents
# NEPCOAT Qualified Products List B

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

### NTPEP System

#### 3-COAT SYSTEM

<table>
<thead>
<tr>
<th>No. Coats</th>
<th>TESTED AND ACCEPTED</th>
<th>Slip Manuf’r Coating</th>
<th>VOC</th>
<th>QPL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Coef</td>
<td>DFT (min/max)</td>
<td>Tested</td>
<td>Accepted</td>
</tr>
</tbody>
</table>

### NEPCOAT LIST B - ORGANIC Zinc Rich Primer / Epoxy or Urethane Intermediate / Aliphatic Urethane Finish

#### SSC(10)-03* from

- **Primer**: Amercoat® 68HS Zinc Rich Epoxy Primer
  - B 1
  - DFT: 3-5 mils
  - Test date: 75-125 micron
  - 276 g/L
  - Date: 12/14/2011

- **Interm**: Amercoat® 399 Fast Drying Epoxy
  - 4-8 mils
  - 100-200 micron
  - Test date: 177 g/L
  - Held until meeting.

- **Topcoat**: Amercoat® 450H Gloss Aliphatic Polyurethane
  - 2-5 mils
  - 50-125 micron
  - Test date: 306 g/L
  - Fall 2015

**Footnote**: 3 mils max DFT, 7 days min cure, 3% vol max thin

#### SSC(04)-02 from 11/17/05

- **Primer**: Carbozinc® 859 Organic Zinc Rich Epoxy Primer
  - B 1
  - DFT: 3-10 mils
  - Test date: 75-250 micron
  - 327 g/L
  - Held until meeting.

- **Interm**: Carboguard® 888 Epoxy Polyamide
  - 3-8 mils
  - 75-200 micron
  - Test date: 320 g/L
  - Fall 2015

- **Topcoat**: Carbothane 133 LH Aliphatic Polyurethane
  - 3-6 mils
  - 75-150 micron
  - Test date: 311 g/L
  - Passed requalification

**Footnote**: 6 mils max DFT, 4 days min cure, 10% vol max thin

#### SSC(10)-04 from

- **Primer**: Carbozinc® 859 Organic Zinc Rich Epoxy Primer
  - B 1
  - DFT: 3-10 mils
  - Test date: 75-250 micron
  - 327 g/L
  - Held until meeting.

- **Interm**: Carboguard® 893 Epoxy Polyamide
  - 3-10 mils
  - 75-250 micron
  - Test date: 320 g/L
  - Fall 2015

- **Topcoat**: Carbothane 133 LH Aliphatic Polyurethane
  - 3-6 mils
  - 75-150 micron
  - Test date: 311 g/L
  - Spring 2013

**Footnote**: 6 mils max DFT, 4 days min cure, 10% vol max thin

#### SSC(06)-11* from

- **Primer**: Carbozinc® 859 Organic Zinc Rich Epoxy Primer
  - B 1
  - DFT: 3-10 mils
  - Test date: 75-250 micron
  - 327 g/L
  - Held until meeting.

- **Interm**: Carboguard® 893 Epoxy Polyamide
  - 3-10 mils
  - 75-250 micron
  - Test date: 320 g/L
  - Held until meeting.

- **Topcoat**: Carbothane 133 LH Aliphatic Polyurethane
  - 3-6 mils
  - 75-150 micron
  - Test date: 311 g/L
  - Spring 2013

**Footnote**: 6 mils max DFT, 4 days min cure, 10% vol max thin

#### SSC(07)-02* from

- **Primer**: Interzinc® 315B Epoxy Zinc Rich
  - Ø 2-6 mils
  - DFT: 50-150 micron
  - 291 g/L
  - Held until meeting.

- **Interm**: Intergard 475HS Epoxy
  - Ø 4-6 mils
  - DFT: 100-200 micron
  - 177 g/L
  - Held until meeting.

- **Topcoat**: Interthane® 870 UHS
  - Ø tested
  - DFT: 75-125 micron
  - 171 g/L
  - Spring 2013

**Footnote**: The test was not performed.

---

### Footnote

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

### NOTE

1. NTPEP- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT
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 full QPL term is seven years starting from the date of acceptance until the next biannual NEPCOAT meeting.
   * 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.

**Note that R-31 Section 12.1, Requalification Testing, has been discontinued.**

---

Pokemon QPL page 2 of 7

---

VOC value adjusted for exempt solvents
# NEPCOAT Qualified Products List B

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

<table>
<thead>
<tr>
<th>NTPEP System</th>
<th>3-COAT SYSTEM</th>
<th>Slip Manuf'r Coating</th>
<th>VOC QPL</th>
<th>Coef</th>
<th>DFT (min/max)</th>
<th>Tested</th>
<th>Accepted</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. Coats</td>
<td>TESTED AND ACCEPTED</td>
<td>Class mil micron g/L Dates</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NEPCOAT LIST B - ORGANIC Zinc Rich Primer / Epoxy or Urethane Intermediate / Aliphatic Urethane Finish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### SSC(08)-07*
- **CARBOLINE COMPANY**
  - **Primer**: Carbosil® 859 PRIMER
  - **Interm**: Carboguard® 825 Epoxy Polyamide
  - **Topcoat**: Carbothane 133 LH Aliphatic Polyurethane

<table>
<thead>
<tr>
<th>Coats</th>
<th>Tested</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Φ</td>
<td>3-10</td>
<td>75-250</td>
</tr>
<tr>
<td>(not)</td>
<td>3-10</td>
<td>75-250</td>
</tr>
<tr>
<td>tested</td>
<td>3-6</td>
<td>75-150</td>
</tr>
</tbody>
</table>

**Footnote**: The test was not performed.

### SSC(10)-05*
- **WASSER HIGH TECH COATINGS**
  - **Primer**: MC-Zinc 100
  - **Interm**: MC-Miomastic 100
  - **Topcoat**: MC-Ferrox A 100

<table>
<thead>
<tr>
<th>Coats</th>
<th>Tested</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Δ</td>
<td>3-5</td>
<td>75-125</td>
</tr>
<tr>
<td>(in)</td>
<td>3-5</td>
<td>75-125</td>
</tr>
<tr>
<td>testing</td>
<td>2-4</td>
<td>50-100</td>
</tr>
</tbody>
</table>

**Footnote**: In Slip Coef. testing

### SSC(11)-01*
- **SHERWIN WILLIAMS COMPANY**
  - **Primer**: Zinc Clad® III HS Organic Zinc Rich Epoxy Primer
  - **Interm**: Steel Spec Epoxy Intermediate
  - **Topcoat**: Hi-Solids Polyurethane

<table>
<thead>
<tr>
<th>Coats</th>
<th>Tested</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Φ</td>
<td>3-5</td>
<td>75-125</td>
</tr>
<tr>
<td>A</td>
<td>3-8</td>
<td>75-200</td>
</tr>
<tr>
<td></td>
<td>3-5</td>
<td>75-125</td>
</tr>
</tbody>
</table>

**Footnote**: 3 mils max DFT, 7 days min cure, zero thinner

### SSC(11)-02*
- **INTERNATIONAL PAINT INC**
  - **Primer**: Intersil® 315B Epoxy Zinc Rich
  - **Interm**: Intergard 475HS Epoxy
  - **Topcoat**: Interthane® 870 UHS

<table>
<thead>
<tr>
<th>Coats</th>
<th>Tested</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>2-6</td>
<td>50-150</td>
</tr>
<tr>
<td></td>
<td>4-8</td>
<td>100-200</td>
</tr>
<tr>
<td></td>
<td>3-5</td>
<td>75-125</td>
</tr>
</tbody>
</table>

**Footnote**: 4 mils max DFT, 48 hours min cure, zero thinner

(continues) (List B continues)

### NOTE 1
- **NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE** of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT
- 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 full QPL term is seven years starting from the date of acceptance until the next biannual NEPCOAT meeting.
- 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.
- Note that R-31 Section 12.1, Requalification Testing, has been discontinued.

**Footnote**: Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections.
### NEPCOAT Qualified Products List B

for Protective Coatings for

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

<table>
<thead>
<tr>
<th>NTPEP System</th>
<th>Slip</th>
<th>Manufacturer Coating</th>
<th>VOC</th>
<th>QPL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3-COAT SYSTEM</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No. Coats</th>
<th>TESTED AND ACCEPTED</th>
<th>Coef</th>
<th>DFT (min/max)</th>
<th>Tested</th>
<th>Accepted</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NEPCOAT LIST B</strong> - ORGANIC Zinc Rich Primer / Epoxy or Urethane Intermediate / Aliphatic Urethane Finish</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SSC(11)-03**

<table>
<thead>
<tr>
<th>Primer</th>
<th>SHERWIN WILLIAMS COMPANY</th>
<th>Zinc Clad® III HS Organic Zinc Rich Epoxy Primer</th>
<th>A 1</th>
<th>3-5</th>
<th>75-125</th>
<th>329</th>
<th>10/02/12</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interm</td>
<td>Macropoxy® 646 Fast Cure Epoxy</td>
<td>5-10</td>
<td>125-250</td>
<td>238</td>
<td>until mtg.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Topcoat</td>
<td>Acrolon™ 218 HS Acrylic Polyurethane</td>
<td>3-6</td>
<td>75-150</td>
<td>263</td>
<td>fall 2016</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Footnote: 3 mils max DFT, 7 days min cure, zero thinner

### Footnotes

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


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 full QPL term is seven years starting from the date of acceptance until the next biannual NEPCOAT meeting.

* 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.

Note that R-31 Section 12.1, Requalification Testing, has been discontinued.

es VOC value adjusted for exempt solvents
NEPCOAT Qualified Products List C
for Protective Coatings for
NEW and 100% BARE EXISTING Steel for Bridges

<table>
<thead>
<tr>
<th>NTPEP System</th>
<th>2-COAT SYSTEM</th>
<th>Slip Manuf’r Coating</th>
<th>VOC</th>
<th>QPL</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. Coats</td>
<td>TESTED AND ACCEPTED</td>
<td>Coef DFT (min/max)</td>
<td>Tested</td>
<td>Accepted</td>
</tr>
</tbody>
</table>

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

[Blank]

---

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
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 full QPL term is seven years starting from the date of acceptance until the next biannual NEPCOAT meeting.
* 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.
Note that R-31 Section 12.1, Requalification Testing, has been discontinued.

VOC value adjusted for exempt solvents

---

NEPCOAT QPL page 5 of 7
### 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, 10/12/11)

---

#### TEST NO. 1 - SLIP COEFFICIENT

**Primer** | 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 ------------------------//

<table>
<thead>
<tr>
<th>Primer</th>
<th>System</th>
<th>@ Hrs</th>
<th>max creep</th>
<th>ave creep</th>
<th>% length in scribe</th>
<th>@ Hrs</th>
<th>Convers’n #</th>
</tr>
</thead>
<tbody>
<tr>
<td>IOZ</td>
<td>P-I-T</td>
<td>5000</td>
<td>4 mm</td>
<td>2 mm</td>
<td>not req’d</td>
<td>4000</td>
<td>8</td>
</tr>
<tr>
<td>OZ</td>
<td>P-I-T</td>
<td>5000</td>
<td>8 mm</td>
<td>4 mm</td>
<td>not req’d</td>
<td>4000</td>
<td>7</td>
</tr>
</tbody>
</table>

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

| Delamination | Acceptance criteria: no delamination allowed |
| Rust / Blistering | Acceptance criteria (max.): |

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

<table>
<thead>
<tr>
<th>Primer</th>
<th>System</th>
<th>@ Hrs</th>
<th>max creep</th>
<th>ave creep</th>
<th>% length in scribe</th>
<th>@ Hrs</th>
<th>Convers’n #</th>
</tr>
</thead>
<tbody>
<tr>
<td>IOZ</td>
<td>P-I-T</td>
<td>5040</td>
<td>4 mm</td>
<td>2 mm</td>
<td>not req’d</td>
<td>4032</td>
<td>9</td>
</tr>
<tr>
<td>OZ</td>
<td>P-I-T</td>
<td>5040</td>
<td>8 mm</td>
<td>4 mm</td>
<td>not req’d</td>
<td>4032</td>
<td>8</td>
</tr>
</tbody>
</table>

| 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: Test discontinued |
| Wear Index  | Acceptance criteria: Test discontinued |

#### TEST NO. 5 - ADHESION (ASTM D4541)

<table>
<thead>
<tr>
<th>Pull-Off Strength</th>
<th>Acceptance criteria (min.) for both primer and PIT panels:</th>
</tr>
</thead>
<tbody>
<tr>
<td>IOZ</td>
<td>2.4 MPa (350 psi)</td>
</tr>
<tr>
<td>OZ</td>
<td>4.1 MPa (600 psi)</td>
</tr>
</tbody>
</table>

#### 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, 10/12/11)

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:

<table>
<thead>
<tr>
<th>Verification Test</th>
<th>R-31 Section</th>
<th>R-31 App X1</th>
<th>ASTM Test</th>
<th>DataMine Test 7</th>
<th>Tolerance *</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total solids (% by mass)</td>
<td>9.7.13.1</td>
<td>X1.1.1.1.6</td>
<td>D 2369</td>
<td>Line 2</td>
<td>± 5 %</td>
</tr>
<tr>
<td>Pigment (% by mass)</td>
<td>9.7.13.5</td>
<td>&quot;</td>
<td>D 2371</td>
<td>&quot; 3</td>
<td>± 5 %</td>
</tr>
<tr>
<td>Mass per volume (g/L)</td>
<td>9.7.13.8</td>
<td>&quot;</td>
<td>D 1475</td>
<td>&quot; 6</td>
<td>± 2 %</td>
</tr>
<tr>
<td>Viscosity (Stormer)</td>
<td>9.7.13.9</td>
<td>&quot;</td>
<td>D 562</td>
<td>&quot; 7</td>
<td>± 8 %</td>
</tr>
</tbody>
</table>

* 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.