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| **Revision History** |
| **Revision Date** | **Section/Nature of Revision** |
| **3/1/17** | Document Issued |
| **2/4/25** | **20.** A. 4) and 5): changed PCS No. SBf-04 to SBf-18**21.** A. 4) and 5): changed two-part water-based epoxy to one-part water-based epoxy and PCS No. SBc-01 to SBc-09; C. 3) and 4) changed two-part water-based epoxy to one-part water-based epoxy and PCS No. SBc-01 to SBc-09; D. 3) and 4): changed two-part water-based epoxy to one-part water-based epoxy and PCS No. SBc-01 to SBc-09; G. 3) and 4: changed two-part water-based epoxy to one part water-based epoxy and PCS No. SBc-01 to SBc-09 and H. 3) and 4): changed two-part water-based epoxy to one part water-based epoxy and PCS No. SBc-01 to SBc-09**23.** D. 2): changed acrylic bonding to water-based rust inhibitive primer and PCS No. SBp-15 to SBp-08, 3): changed two-part water-based polyurethane to one-part water-based polyurethane gloss and PCS No. SBc-02 to SBc-10; E. 3): changed acrylic bonding to water-based rust inhibitive and PCS No. SBp-15 to SBp-08, 4) and 5): PCS No. SBc-02 to SBc-10; F. 3): changed acrylic bonding to water-based rust inhibitive and PCS No. SBp-15 to SBp-08; H. 2): changed PCS No. SBp-02 to SBp-03.**24.** A. 3) and 4): changed two-part water-based epoxy to one-part water-based epoxy and PCS No. SBc-01 to SBc-09; B. 3): changed acrylic bonding to water-based rust inhibitive and PCS No. SBp-15 to SBp-08, 4) and 5): changed two-part water-based polyurethane to one-part water-based polyurethane gloss and PCS No. SBc-02 and PCS No. SBc-10; C. 3) and 4): changed two-part water-based epoxy to one-part water-based epoxy and PCS No. SBc-01 to SBc-09; D. 4) and 5): two-part water-based epoxy to one-part water-based epoxy and PCS No. SBc-01 to SBc-09; G: changed two-part water-based epoxy to one-part water-based epoxy and PCS No. SBc-01 and SBc-09; H. 4) and 5): changed two-part water-based epoxy to one-part water-based epoxy and PCS No. SBc-01 to SBc-09. |

1. RELATED DOCUMENTS AND SECTIONS:
2. The Bidding Requirements, Contractual Conditions and General Requirements of Division 1 shall apply to all the work hereunder.
3. Section 00 65 36.05 Manufacturer’s Coating Warranty
4. Section 00 65 36.06 Contractor’s Coating Warranty
5. Section 09 90 00 Appendix A Approved Product’s List
6. SCOPE AND GENERAL REQUIREMENTS:
7. The work required under this Section consists of all necessary services, tools, equipment, supervision, material and labor required to do all painting work referenced in the drawings and/or by these specifications.
8. The Contractor shall examine the Paint/Coatings Specifications and understand the applicability to the project. Including but not limited to, surfaces to be painted, surfaces to be unfinished (i.e. protected), shop priming, factory treatments and field application.
9. Paint, painting, painting work, paintwork: as used herein, the term(s) shall mean all coating systems not specifically described in other Sections of these Specifications or which are not explicitly excluded from this Section, including primers, emulsions, enamels, sealers, fillers and finishing coats.
10. Paint all exposed surfaces whether materials are designed in "schedules" except where unfinished "natural" finish of material is obviously intended or specifically noted as surface not to be painted. Where items are surfaces not specifically mentioned, paint these the same as adjacent similar materials or areas. If color or finish is not designated, the Project Architect/ Engineer (PA/E) will select such from standard colors available for materials systems specified.
11. Shop priming of ferrous and non-ferrous metals are to be prepared and primed according to the appropriate sections herein. Including, but is not limited to Structural Steel, Hollow Metal Work, Miscellaneous Metals, Electrical, Mechanical and similar items.
12. Caulking of joints adjacent to painted surfaces. Caulking is also required on exposed structural steel and steel fabrications to provide corrosion protection.
13. For new construction, items also to be painted include, but are not limited to:
14. Roof top equipment: A.C. units, fans, vents, etc. (except plumbing vents)
15. Door closers
16. Galvanized metal exposed to view
17. Grilles and vents which occur indoors (except aluminum)
18. Miscellaneous metals, such as ladders and access doors
19. Items also to be painted include, but are not limited to:
20. Roof top equipment: A.C. units, fans, vents, etc. (except plumbing vents)
21. Door closers
22. Galvanized metal exposed to view
23. Grilles and vents which occur indoors (except aluminum)
24. Miscellaneous metals
25. Ladders
26. Access doors
27. Poles
28. Beams
29. Pipes
30. Electrical boxes
31. Conduit (exposed to view)
32. HVAC cabinets and supports (do not paint or pressure wash coils, internal parts, moving parts or labels)
33. Handrails
34. Basketball poles and backboards
35. Baseball and softball foul ball markers
36. Soccer and football goal posts
37. Flag poles
38. Safety bollards
39. Concrete posts
40. All factory-finished items with visible rusting or corroding, peeling and/or color fading
41. Faded fire alarm equipment
42. Roof top equipment including plumbing vents
43. Fire hydrants (OSHA yellow body with white caps) school board owned only
44. WORK NOT INCLUDED:
45. Prefinished items: except where specifically called for otherwise, do not include painting when full factory-finishing or installer-finishing is specified for such items (but not limited to): toilet partitions, acoustical materials, finished mechanical and electrical equipment such as light fixtures, panels, switch gear, motors, pumps, air handling equipment and the like.
46. Concealed surfaces: unless otherwise specifically called for, finish painting is not called for on surfaces above ceilings, behind walls or partition surfacing, nor in inaccessible areas, foundation spaces and duct shafts.
47. Finished metal surfaces: finished metal surfaces of anodized aluminum, stainless steel chromium plate, copper, bronze and similar finished metal materials will not require finish paint.
48. Operating parts: do not paint any moving parts of operating units, mechanical and electrical parts such as valve and damper operators, linkages, sensing devices, motor and fan shafts. Do not paint over fire labels; code required labels, equipment identifications, performance ratings and name or nomenclature plates.
49. Painting of pipe work and supports as covered under Sections Supplementary Provisions Mechanical and Electrical. This should be painted under maintenance painting.
50. QUALITY CONTROL:
51. The Paint/Coatings Contractor shall be capable of verifying all requirements outlined herein, including referenced standards and Paint Manufacturer’s product data, using visual and/or instrumental methods.
52. The Paint/Coatings Contractor shall not begin painting work until surfaces and environmental conditions are satisfactory. Commencement of painting work shall imply the Paint/Coatings Contractor's acceptance of surfaces and environmental conditions. If such surfaces or conditions are not satisfactory, this Paint/Coatings Contractor shall notify the General Contractor in writing.
53. A Quality Control (QC) Inspector, employed or contracted by either the General Contractor or the Paint/Coatings Contractor shall be identified, qualified and equipped to perform the required testing. Test methods and/or observations shall be made to verify conformance to all specified requirements outlined herein or in the manufacturer’s product data sheet (PDS).
54. The QC Inspector shall document all inspections performed and submit to the General Contractor or Project Manager.
55. All QC inspections shall be documented on the Pinellas County Schools (PCS) Quality Control Inspection Report.
56. The General Contractor or Painting Contractor shall maintain all QC inspection reports and make them available to the PA/E or PCS upon request.
57. A representative of the paint/coating manufacturer of the company providing the Paint/Coatings for this project is required to visit the project periodically at the phases listed below. At a minimum, each of the below phases shall be inspected twice per building:
58. During surface preparation.
59. After surface preparation.
60. After patch or substrate repair.
61. After primer or sealer application; and
62. After the finish coat (final completion).
63. Coverage (Opacity) and Dried Coating Thickness:
64. All applications shall include the sufficient number of coats to provide full opacity, but in no event shall the dry film thickness (DFT) be less than specified herein. If additional coats are needed to provide full opacity, this shall be performed at no additional cost to the Owner.
65. Shop primed steel surfaces: measure DFT in accordance with SSPC-PA 2 prior to field application.
66. Field painted steel surfaces: measure DFT in accordance with SSPC-PA 2 prior to application of finish coat.
67. In the event the DFT of any surface is disputed, destructive testing shall be performed in accordance with ASTM D 4138 Measurement of Dry Film Thickness of Protective Coating Systems by Destructive, Cross-Sectioning Means. The number of tests and locations shall be determined by the PA/E or Project Manager. Upon completion of the testing, repairs to the test areas shall be performed. The General Contractor/Coatings Contractor shall bear the costs for repairs related to destructive DFT testing.
68. Shop Applied Paint/Coatings:
69. QC Inspection Reports (QCIR) shall be provided for all shop-coated steel (fabrications, components or structural shapes) and include the following:
70. Identifiable piece numbers and date inspected.
71. Inspection tools, methods and standards used to verify conformance to the requirements.
72. Number of tests performed.
73. Replica tape from blast profile testing (if applicable).
74. Paint/coating materials applied.
75. Results of testing including a designation of pass/fail.
76. Signature and contact information of the person who performed the inspection.
77. Contractors shall inform the PA/E or PCS if any deficiencies are identified prior to shipment to the jobsite.
78. QUALITY ASSURANCE:
79. The PA/E at his discretion may employ a Third-Party Paint/Coatings Consultant to periodically visit the site of painting work. This consultant will advise the PA/E and the PCS Representative/Inspector.
80. A pre-work meeting shall be held prior to the beginning of the paint/coatings field work. The meeting shall be attended by the General Contractor, Paint/Coatings Contractor QC Inspector, Third-Party Paint/Coatings Consultant, PCS Representative/Inspector and the PA/E.
81. The PA/E and PCS Representative/Inspector shall have a fair opportunity to inspect each phase of preparation and painting including use of in-place scaffolding, ladders, lift equipment, etc.
82. Samples of the Paint/Coatings may be periodically removed from unopened containers by the PA/E and subjected to laboratory analysis.
83. PAINT/COATING MATERIALS GENERAL:
84. Paint/Coating materials shall be pre-approved and listed on the PCS Qualified Products List (QPL).
85. When information listed on the manufacturer's PDS conflicts with requirements herein, the more stringent shall take precedence.
86. Use only thinners recommended by paint manufacturers and only within manufacturers recommended limits.
87. All materials not listed in PCS-QPL shall be pre-approved by PCS.
88. PAINT/COATING DELIVERY AND STORAGE:
89. Deliver all materials to the job site in original, new and unopened packages and containers bearing manufacturer's name and label.
90. Each container shall have legible labels with the following information:
91. Product name.
92. Manufacturer's stock number.
93. Manufacturer's name.
94. Batch number.
95. Store materials in a safe, dry area adequately protected against fire, explosion or other damage which may be caused by paint materials. Good housekeeping practices shall be enforced.
96. A temperature-controlled area or room shall be made available and used for storage of paint materials. Floors and other surfaces of this area shall be adequately protected from damage should materials be spilled, or damage occur the Paint/Coatings Contractor shall bear the cost to remedy such.
97. SUBMITTALS:
98. The General Contractor shall provide to the PA/E six (6) copies of the submittals described herein for Shop and Field Painting activities and electronic copies in portable document format (PDF) shall be provided upon request:
99. Substrate and paint/coating material cross-reference: document that includes each surface to be coated, PCS number and product name/number.
100. Name and contact numbers for all subcontractors who will be performing surface preparation and coating application (field and shop).
101. Work schedule of any task related to this specification (field and shop).
102. Product data sheet (PDS) and safety data sheet (SDS) for each product; including abrasive media to be used by shop painting facility.
103. A written statement from the manufacturer (paint/coatings) stating that the materials have not changed since District approval.
104. Letter of Intent to Warranty: the paint/coatings manufacturer shall provide a Letter of Intent to Warranty signed by the Corporate Warranty Manager. The letter shall reference the warranty requirements outlined herein (no modifications or qualifications).
105. Color and Dried Coating Samples: six (6) drawdowns for each product and color on a sealed display chart (e.g. Leneta Company, 800-663-6324). Label all samples as to the product name/number, PCS number and location(s) to be used. Color samples shall be kept on file by the:
106. PA/E
107. PCS – Facilities Design and Construction Department (Project Coordinator)
108. Job trailer/General Contractor
109. Maintenance Department (Project Manager)
110. PCS Document Center
111. Head Plant Operator (HPO)
112. COLORS:
113. The Project Architect/Engineer (PA/E) shall select all paint/coatings material colors shades texture and finishes subject to approval by Pinellas County Schools. The preset color standard shall be the Nuance Color System by Colwell-General.
114. Each applied coat shall have a sufficient color contrast to provide identification between coats (e.g. underlying colors shall be significantly lighter than each subsequent coat).
115. Color information for estimating:
116. PA/E will provide a schedule of colors and finishes as approved by the Owner for this project.
117. Number of colors for bidding purposes unless otherwise shown on drawings:
118. Interior stain/varnish finishes – limited to one.
119. Colors for interior – limited to five.
120. Colors per room or space – limited to two.
121. Colors per common area – limited to three.
122. Colors for exterior – limited to three.
123. Color strength for estimating unless otherwise shown on drawings:
124. Light paint hues – 80 percent of areas.
125. Medium paint hues – 15 percent of areas.
126. Strong dark hues – 5 percent of areas.
127. Approval of the in-place color against approved color chips shall be the right and judgment of the PAE and PCS.
128. HAZARDOUS PAINT DISTURBANCE:
129. Testing for hazardous paint constituents of existing paint/coatings will be performed on a case-by-case basis. Generally, if the existing paint requires surface preparation prior to paint/coating application, testing shall be performed.
130. The PAE shall contact the PCS Facilities Design and Construction Department to request paint chip testing for each existing paint/coating. In some cases, the testing may have been previously performed and reports can be provided.
131. The PA/E shall provide all the necessary information to sample each existing paint system where surface preparation will be performed. At a minimum, the information shall include the following:
132. School name
133. Building numbers
134. Room numbers
135. Surfaces and color of each
136. Estimated square footage of each surface/color
137. Date test results required
138. PREPARATION FOR PAINTING/COATING – GENERAL:
139. Surface preparation shall be in accordance with the manufacturer’s printed instructions. Any conflict between the manufacturer’s requirements and this specification shall be brought to the attention of the PA/E or PCS. In general, the most stringent requirement shall prevail.
140. Surfaces to be painted shall be free from scratches thoroughly dry and well sanded/grinded, feathering edges where appropriate before painting work is started. Minor defects shall be corrected by the Paint/Coatings Sub-Contractor.
141. PDCA P14-06 Levels of Surface Preparation shall be the Level 4 Supreme for metal substrates and Level 3 Superior for all others.
142. LEAD-BASED PAINT:
143. When the scope of work requires sanding, scraping or paint stripping, the Contractor shall request copies of the Lead-Based Paint (LBP) survey performed by PCS.
144. If an LBP Survey had not been performed, all surface preparation shall be limited to wet cleaning (e.g. wet sanding, wet scraping, etc.) and all paint chips shall be stored in double-lined plastic trash bags and delivered to PCS.
145. APPLICATION GENERAL:
146. Apply paints/coatings in accordance with manufacturer's recommendations, printed instructions and industry standards. Any conflict between the manufacturer’s requirements and this specification shall be brought to the attention of the PA/E. In general, the most stringent requirement shall prevail.
147. Do not apply paint in rain, fog, or mists or when relative humidity exceeds that specified by the Manufacturer; nor to wet or damp surfaces. Painting may be continued during inclement weather only if areas and surfaces to be painted are enclosed and heated to temperature, relative humidity and time parameters as specified by the manufacturer.
148. All spray applications on porous or textured surfaces shall be back rolled and the roller texture shall be minimized; excessive ropiness is not acceptable.
149. When a roller is used, the roller nap size shall be appropriate for the existing surface condition, porosity finish in a manner to assure a smooth, uniform finish will result.
150. All coats shall be free from noticeable laps, brush marks, streaks, runs, sags, wrinkles, pinholes, holidays, etc.
151. Finish coats shall be uniform and shall be applied in a manner which will not show differences in gloss or appearance finish when viewed at a 20-degree angle with a light source at far end of surface being viewed. Uneven appearance shall be resolved by applying additional coats.
152. APPLICATION OF SEALANTS:
153. Inspect interior and/or exterior caulking at various junctures (e.g. wall penetrations, window returns, window frame to substrate, substrate to substrate, floor to wall, ceiling to wall expansion joints, control joints, etc.) All existing sealant joints shall be removed and replaced per the sealant manufacturer’s requirements.
154. Sealant materials shall be one-part or two-part polyurethane (e.g. Tremco Dymonic).
155. Colors to be approved in writing by PA/E or PCS prior to application.
156. All caulking/sealant joints shall be tooled smooth and non-uniform texture (e.g. chatter) or blistering will not be acceptable.
157. All sealants shall be over coated with finish coat from adjacent substrates. Sealant shall cure for a minimum of 4 days prior to application of paint; do not apply textured coatings over sealants.
158. When installing expansion joints, install COLORSEAL from EMSEAL in the expansion joint the lower 12’ install COLORSEAL PR and all walkways DSM system with ADA approved cover plate. All colors approved by PCS. The EMSEAL products shall be installed per manufacturers’ specifications and any substitutions shall be approved in writing by PCS.
159. Backer rod or bond-breaking tape shall be used with all dynamic joints (i.e. potential for movement).
160. PROTECTION:
161. Schedule work so painting is performed prior to installation of new fixtures and hardware.
162. Protective devices shall be used (e.g. clean drop cloths, masking film, etc.) to prevent overspray or damage to adjoining surfaces, fixtures, equipment, surfaces, etc. The Contractor shall be responsible for and shall repair or replace any damage resulting from paint/coatings operations.
163. The Contractor shall provide:
164. Suitable filters over all HVAC return grilles within the work area.
165. “Wet Paint” signs to protect newly painted finishes.
166. Barriers that will allow students and staff to move throughout the area.
167. TOUCH-UP AND CLEANING:
168. After completion of the project, touch-up painting shall be performed where needed. When a color or sheen difference is discernible when viewed at any angle, corner to corner painting shall be performed.
169. Overspray and paint drips shall be removed from surfaces which are not specified to receive paint/coatings. Repairing surfaces due to removal activities shall be the Contractor’s responsibility.
170. WASTE DISPOSAL:
171. Daily, properly dispose of all waste materials used to prepare or paint.
172. Liquid waste shall not be disposed in plumbing fixtures, drains or cleanouts.
173. Waste from equipment cleaning shall be contained and disposed of offsite.
174. WARRANTY/GUARANTEE:
175. The Manufacturer, Paint/Coatings Subcontractor applying the paint/coatings and the Contractor each shall in writing, warrant and guarantee the specific coatings as set forth in the attached Warranties and Guarantees and provide six (6) signed copies (see paragraph 8 for submittals).
176. TOUCH-UP PAINT:
177. The Paint/Coatings Contractor shall provide the school with five single gallons of each product and color of finish coats only. Each gallon container shall be new and unopened and properly identified as to type and color.
178. **NEW CONSTRUCTION** – EXTERIOR PAINT/COATING SYSTEMS:
179. Concrete Masonry Unit (CMU) Walls:

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| 1) | Surface Preparation: | Remove surface dust, dirt and mortar smears; repair damage to CMU and fill large voids. Notes: 1, 2, 3, 4, 5 and 6 |
|  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Block Filler | SBp-01 | Note 2 |
| 3) | Second Coat: | Block Filler | SBp-01 | Note 2 |
| 4) | Third Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
| 5) | Fourth Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |

1. Portland Cement Plaster (Stucco):

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| 1) | Surface Preparation: | Remove surface contamination and patch hairline cracks. Notes: 7 and 18 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Acrylic Primer | SBp-02 | 2.0-3.0 |
| 3) | Second Coat: | Acrylic Primer | SBp-02 | 2.0-3.0 |
| 4) | Third Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
| 5) | Fourth Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |

1. Precast and Poured in Place Concrete:

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| 1) | Surface Preparation: | After installation, clean with potable water and stiff nylon brush to remove surface contamination. Notes: 1, 9 and 18 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Acrylic Primer | SBp-02 | 2.0-3.0 |
| 3) | Second Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
| 4) | Third Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |

1. Hot-Dip Galvanized (HDG) Steel and Non-Ferrous Metal:

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| 1) | Surface Preparation: | Remove surface contamination using detergent, degreaser or solvent. Notes: 10, 11, 12, 14 and 18 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Acrylic Bonding Primer | SBp-15 | 2.0-3.0 |
| 3) | Second Coat: | Two-Part Water Based Polyurethane | SBc-02 | 2.0-4.0 |
| 4) | Third Coat: | Two-Part Water Based Polyurethane | SBc-02 | 2.0-4.0 |

1. HDG Hollow Metal Doors, Door Frames and Window Frames:

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| 1) | Surface Preparation: | Remove surface contamination using detergent, degreaser or solvent. Notes: 10, 11, 12, 14 and 18 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat (Shop): | Two-Part Surface Tolerant Epoxy Primer | SBp-07 | 3.0-5.0 |
| 3) | Field Touch-up: | Two-Part Surface Tolerant Epoxy Primer | SBp-07 | N/A |
| 4) | Second Coat: | Two-Part Water Based Polyurethane | SBc-02 | 2.0-4.0 |
| 5) | Third Coat: | Two-Part Water Based Polyurethane | SBc-02 | 2.0-4.0 |

1. Carbon Steel (Structural and Miscellaneous Fabrications):

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| 1) | Surface Preparation: | Prepare in accordance with SSPC-SP 6 with a 2.0-3.0 mil profile. Notes: 13, 14 and 18 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat (Shop): | Two-Part Surface Tolerant Epoxy Primer | SBp-07 | 8.0-10.0 |
| 3) | Field Touch-up: | Two-Part Surface Tolerant Epoxy Primer | SBp-07 | Note 12 |
| 4) | Second Coat | Acrylic Rust Inhibitive Primer | SBp-08 | 2.0-4.0 |
| 5) | Third Coat: | Two-Part Water Based Polyurethane | SBc-02 | 2.0-4.0 |
| 6) | Fourth Coat: | Two-Part Water Based Polyurethane | SBc-02 | 2.0-4.0 |

1. Split-Faced CMU, Brick or Miscellaneous Masonry:

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| 1) | Surface Preparation: | Pressure clean to remove dirt and efflorescence. Notes: 15 and 20 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | 40 percent Silane Water Repellent | SBs-01 | Note 15 |

1. Wood (Non-Bleeding) Species:

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| 1) | Surface Preparation: | Counter sink and patch fastener holes with spackling. Caulk seams and intersection of dissimilar materials. Notes: 16, 17 and 18 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Acrylic Wood Primer | SBp-03 | 1.4-2.0 |
| 3) | Second Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
| 4) | Third Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |

1. Wood (Bleeding) Species:

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| 1) | Surface Preparation: | Counter sink and patch fasteners holes with oil-based spackling. Caulk seams and intersection of dissimilar materials after primer application. Notes: 16, 17 and 18 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Oil-based Wood Primer | SBp-04 | 2.3-3.0 |
| 3) | Second Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
| 4) | Third Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |

1. Concrete (Slab-on-grade) Sidewalks and Miscellaneous Pads – Opaque Stain:

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| 1) | Surface Preparation: | Ensure the moisture content and moisture vapor transmission is not detrimental for coating application. Note: 21 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Concrete Stain (Solvent-based) | SBf-18 | Note 18 |
| 3) | Second Coat: | Concrete Stain (Solvent-based) | SBf-18 | Note 18 |

 21. **NEW CONSTRUCTION** – INTERIOR PAINT/COATING SYSTEMS:

1. Concrete Masonry Unit (CMU) Walls:

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| 1) | Surface Preparation: | Remove dust, dirt and mortar smears; repair damage to CMU and fill large voids. Notes: 1, 2, 3, 4, 5 and 6 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Block Filler | SBp-01 | Note 2 |
| 3) | Second Coat: | Block Filler | SBp-01 | Note 2 |
| 4) | Third Coat: | One-Part Water Based Epoxy | SBc-09 | 2.5-3.0 |
| 5) | Fourth Coat: | One-Part Water Based Epoxy | SBc-09 | 2.5-3.0 |

1. Hot-Dip Galvanized (HDG) Hollow-Metal Doors, Door Frames and Window Frames:

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| 1) | Surface Preparation: | Remove surface contamination using detergent, degreaser or solvent. Notes: 10, 11, 12 and 18 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat (Shop): | Two-Part Surface Tolerant Epoxy Primer | SBp-07 | 3.0-5.0 |
| 3) | Field Touch-up: | Two-Part Surface Tolerant Epoxy Primer | SBp-07 | N/A |
| 4) | Second Coat: | Two-Part Water Based Polyurethane | SBc-02 | 1.5-3.0 |
| 5) | Third Coat: | Two-Part Water Based Polyurethane | SBc-02 | 1.5-3.0 |

1. Precast and Poured in Place Concrete:

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| 1) | Surface Preparation: | After installation, clean with potable water and stiff nylon brush to remove surface contamination. Notes: 1, 9 and 18 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Acrylic Primer | SBp-02 | 2.0-3.0 |
| 3) | Second Coat: | One-Part Water Based Epoxy | SBc-09 | 2.5-3.0 |
| 4) | Third Coat: | One-Part Water Based Epoxy | SBc-09 | 2.5-3.0 |

1. Gypsum Wallboard (GWB) – Walls:

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| 1) | Surface Preparation: | Remove all dust walls by wiping with damp sponges. Note: 8 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Drywall Primer | SBp-10 | 1.1-2.0 |
| 3) | Second Coat: | One Part Water Based Epoxy | SBc-09 | 2.5-3.0 |
| 4) | Third Coat: | One Part Water Based Epoxy | SBc-09 | 2.5-3.0 |

1. GWB Ceilings and Mechanical Rooms:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Remove all dust from the walls by wiping with damp sponges. Note: 8 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Drywall Primer | SBp-10 | 1.1-2.0 |
| 3) | Second Coat: | Semi-Gloss Latex | SBc-06 | 1.6-2.5 |
| 4) | Third Coat: | Semi-Gloss Latex | SBc-06 | 1.6-2.5 |

1. HDG Roof Decks:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Remove surface contamination using detergent, degreaser or solvent. |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Acrylic Drywall | SBc-07 | Note 18 |
| 3) | Second Coat: | Acrylic Drywall | SBc-07 | Note 18 |

1. Gypsum Plaster Walls:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Ensure the plaster is sufficiently cured and ready for painting. Note: 19 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Plaster Primer | SBp-11 | 1.6-2.5 |
| 3) | Second Coat: | One Part Water Based Epoxy | SBc-09 | 2.5-3.0 |
| 4) | Third Coat: | One Part Water Based Epoxy | SBc-09 | 2.5-3.0 |

1. Wood Wall Surfaces:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Counter sink and patch fastener holes with spackling. Caulk seams and intersection of dissimilar materials; lightly sand primer prior to the second coat. Notes: 16, 17 and 18 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Enamel Undercoat | SBp-09 | 1.8-2.5 |
| 3) | Second Coat: | One Part Water Based Epoxy | SBc-09 | 2.5-3.0 |
| 4) | Third Coat: | One Part Water Based Epoxy | SBc-09 | 2.5-3.0 |

1. Concrete Floors – Opaque Finish – Moderate Duty:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Ensure the moisture content and moisture vapor transmission is not detrimental for coating application. Clean and mechanically abrade the floor surfaces. Note: 20 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Acrylic Floor and Deck Paint | SBf-02 | 1.5-2.0 |
| 3) | Second Coat: | Acrylic Floor and Deck Paint | SBf-02 | 1.5-2.0 |

1. Concrete Floors – Pedestrian Walkway – Heavy Duty:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Ensure the moisture content and moisture vapor transmission is not detrimental for coating application. Clean and mechanically abrade the floor surfaces. Note: 20 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Polyurethane Base Coat | SBf-01 | 22-25 |
| 3) | Second Coat: | Single Component Aliphatic Polyurethane | SBf-01 | 2.0-2.6 |

1. Concrete Floors – Clear Finish (Solvent Based):

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Remove surface contamination. |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | 40 percent Silane Water Repellant | SBs-01 | Note 21 |

1. Concrete (Slab-on-grade) Sidewalks, Pads and Floors – Opaque Stain:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Pressure clean to remove dirt, paint, chalk and miscellaneous contamination. Add non-slip additive to stain. |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | H & C Solvent Based Concrete Stain | SBf-18 | Note 21 |

1. **PAINT SYSTEM NOTES – NEW CONSTRUCTION**:

|  |  |
| --- | --- |
| 1) | CMU or precast concrete with relatively large voids and localized, excessive porosity may require application of spackling to prevent visible “holes” after the complete system application. The application of spackling (e.g. light weight spackling) shall be performed prior to the first coat of finish. For CMU, the intent is to match the general appearance of the surrounding CMUs not to level out all inherent concavities. |
| 2) | DFT measurements shall not be the only method used to verify conformance. The final appearance is the primary determination (e.g. sealed voids, uniform appearance, minimal roller texture, fully opaque, etc.). |
| 3) | Mortar shall be cured according to the mortar manufacturer’s recommendations or other approved test method (e.g. hardness, pH etc.). At a minimum, the mortar shall be hard and not able to be gouged with moderate pressure (i.e. not friable). |
| 4) | Repairs to walls after application of paint/coatings shall include, at a minimum, the same number of coats, or more coats in order to reach a uniform appearance. |
| 5) | Concrete and masonry surfaces shall be rubbed and pointed prior to paint/coating or sealer application. If appropriate conditions do not exist, notify the General Contractor of the defect for correction. |
| 6) | Mortar repairs shall be performed using polymer-modified mortar and verified to be hard prior to paint/coating application. |
| 7) | If paint application is to be performed prior to fourteen calendar days after Portland cement plaster (stucco) application, document testing of all elevations for sufficient cure. Testing shall be performed by the paint/coating manufacturer or third party and include pH and general hardness (texture and finish coat). |
| 8) | If trowel marks or other minor defects on gypsum plaster necessitate sanding the surface, follow by thoroughly washing and wiping with clean potable water or as per manufacturer’s recommendation. |
| 9) | Precast concrete components that are dense and smooth (e.g. windowsills) shall be etched with ASTM D 4260 Acid Etching Concrete. Acid etch with muriatic acid (20 Baume) to produce a porous substrate and a finish similar to 80 grit sandpaper. Thoroughly rinse after effervescing action and do not allow drying prior to rinse. This operation shall be performed prior to installation and verified (documented) using water penetration testing. |
| 10) | Repair damage to the HDG coating per ASTM A 780 Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings (use of aerosol spray “cold galvanizing” is not permitted). |
| 11) | The total DFT range shall be increased by 1.0 mils to account for the DFT of the HDG. Field touch-ups shall be performed prior to installation into the wall and after installation, inspect to determine if additional touch-up is necessary.  |
| 12) | Field touch-up is required where the shop-applied epoxy primer has been mechanically damaged. Proper mixing of “partial kits” is acceptable for this application. The surface preparation shall be as follows: Sand the surface to remove loose rust and/or to smooth the surface followed by solvent cleaning. If the mechanical damage exposed to the base metal (i.e. visible rust), two spot coats shall be applied and the repaired surface sanded smoothly prior to the finish coat application putty body filler repairs shall be spot painted with SBp-08 prior to finish coat application. |
| 13) | Steel profile shall be measured in accordance with ASTM D 4417 Field Measurement of Surface Profile of Blast Cleaned Steel, Method C. A minimum of three (3) locations shall be measured. Replica tape shall be affixed to all QC reports. Abrasive blasting and primer application shall be performed only when the steel surface temperature is at least 5-degrees F above the dew point temperature; verified through instrumental testing in the work area. |
| 14) | DFT shall be measured in accordance with SSPC-PA 2 Measurement of Dry Coating Thickness with Magnetic Gages and documented. |
| 15) | A mock-up application shall be performed and evaluated by the PA/E prior to beginning the full application. The manufacturer or third party shall perform “RILEM Tube” testing and at least two locations shall be measured (one location over a mortar joint). The results of the RILEM Tube testing shall be reported based on the amount of water-uptake and respective number of minutes (e.g. 1.0 mL in 15 minutes). The results of the testing will determine the pass-fail criteria for the entire project. Porous substrates may require more than one application to meet the acceptable criteria established by the water repellent supplier (to receive the warranty). |
| 16) | After the prime coat has been applied on wood surfaces, nail holes shall be filled with putty. Putty shall be brought flush with the surface of woodwork and sanded. |
| 17) | Knots sap and pitch streaks in lumber shall be sealed with SBP-12 before the prime coat is applied. |
| 18) | DFT measurements will not be used to verify conformance. The final appearance is the primary determination (e.g. fully opaque, uniform color and sheen etc.). |
| 19) | Cure testing shall be performed by the paint/coating manufacturer or third party and include pH and general hardness. |
| 20) | Apply flood coat to the entire surface and maintain uniform wet look for 20 minutes. If suction/penetration is observed, re-apply. |
| 21) | Etch in accordance with ASTM D 4260 Acid Etching Concrete and utilize muriatic acid (20 Baume) to produce a porous substrate. Thoroughly rinse after effervescing action and do not allow drying prior to rinse. Test surfaces for pH and if found to be acidic, treat with a solution of sodium bicarbonate and water. |

1. **PREVIOUSLY PAINTED SURFACES** – EXTERIOR PAINT/COATING SYSTEMS:
2. Concrete Masonry Unit (CMU) Walls:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Notes: 1, 2, 3, 5, 8 and 9 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Acrylic Chalk Binder (Pigmented) | SBp-05 | N/A |
| 3) | Second Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
| 4) | Third Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |

1. Portland Cement Plaster (Stucco):

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Notes: 1, 2, 3, 4, 5,8 and 9 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Acrylic Chalk Binder (Pigmented) | SBp-05 | N/A |
| 3) | Second Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
| 4) | Third Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |

1. Precast and Poured in Place Concrete:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Notes: 1, 2, 3, 8 and 9 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Acrylic Primer | SBp-02 | 2.0-3.0 |
| 3) | Second Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
| 4) | \*Third Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
|  | \*Third Coat is required only if full opacity and uniform sheet is not achieved with the Second Coat. |  |  |

1. Hot-Dip Galvanized (HDG) Steel and Non-Ferrous Metal:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Notes: 1, 6, 7, 8, 10 and 13 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Water Based Rust Inhibitive Primer | SBp-08 | 2.0-3.0 |
| 3) | Second Coat: | One-Part Water Based Polyurethane Gloss | SBc-10 | 2.0-4.0 |
| 4) | \*Third Coat: | One-Part Water Based Polyurethane Gloss | SBc-10 | 2.0-4.0 |
|  | \*Third Coat is required only if full opacity and uniform sheen is not achieved with the Second Coat. |  |  |

1. HDG Hollow-Metal Doors, Door Frames and Window Frames:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Notes: 1, 6, 7, 8, 10 and 13 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | \*Spot Primer: | Alkyd Rust Inhibitive Primer | SBp-06 | N/A |
| 3) | Tie Coat Primer: | Water Based Rust Inhibitive Primer | SBp-08 | 2.0-3.0 |
| 4) | Second Coat: | One-Part Water Based Polyurethane Gloss | SBc-10 | 2.0-4.0 |
| 5) | Third Coat: | One-Part Water Based Polyurethane Gloss | SBc-10 | 2.0-4.0 |
|  | \*Spot Prime surfaces prepared according to Note: 7. |  |  |

1. Carbon Steel (Structural and Miscellaneous Fabrications):

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Notes: 1, 6, 7, 8, 10 and 13 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | \*Spot Primer: | Alkyd Rust Inhibitive Primer | SBp-06 | N/A |
| 3) | Tie Coat Primer: | Water Based Rust Inhibitive Primer | SBp-08 | 2.0-3.0 |
| 4) | \*\*Second Coat: | Two-Part Water Based Polyurethane | SBc-02 | 2.0-4.0 |
| 5) | \*\*Third Coat: | Two-Part Water Based Polyurethane | SBc-02 | 2.0-4.0 |
|  | \*Spot Prime surfaces prepared according to Note: 7. |  |  |
|  | \*\*Finish Coat can be substituted to match surrounding finish (e.g. Semi-Gloss Acrylic). |  |  |

1. Split Faced CMU, Brick or Miscellaneous Masonry:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Pressure clean to remove dirt and efflorescence. Note: 11 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | 40 percent Silane Water Repellant | SBs-01 | Note 15 |

1. Wood (Non-Bleeding) Species:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Notes: 1, 2, 6, 8, 12 and 13 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Acrylic Primer | SBp-03 | 2.0-3.0 |
| 3) | Second Coat | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
| 4) | Third Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |

1. Wood (Bleeding) Species:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Notes: 1, 2, 6, 8, 12 and 13 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | \*Spot Primer: | Oil Based Wood Primer | SBp-04 | 2.3-3.0 |
| 3) | First Coat | Acrylic Primer | SBp-02 | 2.0-3.0 |
| 4) | Second Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
| 5) | Third Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
|  | \*Spot Prime bleeding knots and other areas where tannin stains are observed. |  |  |

1. Concrete (Slab-on-grade) Sidewalks, Pads and Floors – Opaque Stain:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Add non-slip additive to stain. Notes: 1 and 18 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Concrete Stain (Solvent Based) | SBf-18 | Note 18 |
| 3) | Second Coat: | Concrete Stain (Solvent Based) | SBf-18 | Note 18 |

1. **Previously Painted Surfaces** – Interior Paint/Coating Systems:
2. Concrete Masonry Unit (CMU) Walls:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Clean surfaces to remove dirt and miscellaneous contamination. Notes: 5, 8, 9, 13 and 16 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | Tie Coat Primer: | Acrylic Bonding Primer | SBp-15 | 2.0-3.0 |
| 3) | Second Coat: | One-Part Water Based Epoxy | SBc-09 | 2.5-3.0 |
| 4) | Third Coat: | One-Part Water Based Epoxy | SBc-09 | 2.5-3.0 |

1. Hot-Dip Galvanized (HDG) Hollow-Metal Doors, Door Frames and Window Frames:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Notes: 6, 7, 8, 10 and 13 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | \*Spot Primer: | Alkyd Rust Inhibitive Primer | SBp-06 | N/A |
| 3) | Tie Coat Primer: | Water Based Rust Inhibitive Primer | SBp-08 | 2.0-3.0 |
| 4) | Second Coat: | One-Part Water Based Polyurethane Gloss | SBc-10 | 2.0-4.0 |
| 5) | Third Coat: | One-Part Water Based Polyurethane Gloss | SBc-10 | 2.0-4.0 |
|  | \*Spot Prime surfaces prepared according to Note: 7. |  |  |

1. Precast and Poured in Place Concrete:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Clean to remove dirt and miscellaneous contamination. Notes: 6, 8, 13 and 16 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | Tie Coat Primer: | Acrylic Bonding Primer | SBp-15 | 2.0-3.0 |
| 3) | Second Coat: | One-Part Water Based Epoxy | SBc-09 | 2.5-3.0 |
| 4) | Third Coat: | One-Part Water Based Epoxy | SBc-09 | 2.5-3.0 |

1. Gypsum Wallboard (GWB) – Walls:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Notes: 1, 2, 6, 8, 12 and 13 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | \*Spot Primer: | Oil Based Wood Primer | SBp-04 | 2.3-3.0 |
| 3) | First Coat | Acrylic Primer | SBp-02 | 2.0-3.0 |
| 4) | Second Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
| 5) | Third Coat: | Acrylic Latex Semi-Gloss Exterior Coating | SBc-03 | 1.4-2.0 |
|  | \*Spot Prime bleeding knots and other areas where tannin stains are observed. |  |  |

1. GWB Ceilings and Mechanical Rooms:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Clean to remove dirt and miscellaneous contamination. Notes: 8, 13 and 16 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | Tie Coat Primer: | Acrylic Bonding Primer | SBp-15 | 2.0-3.0 |
| 3) | Second Coat: | Semi-Gloss Latex | SBc-06 | 1.6-2.5 |
| 4) | Third Coat: | Semi-Gloss Latex | SBc-06 | 1.6-2.5 |

1. HDG Roof Decks:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Clean to remove dirt and miscellaneous contamination. Note: 8 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Acrylic Drywall | SBc-07 | N/A |
| 3) | Second Coat: | Acrylic Drywall | SBc-07 | N/A |
|  | \*The Second Coat is required only if full opacity and uniform sheen is not achieved with the First Coat. |  |

1. Gypsum Plaster Walls:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Clean to remove dirt and miscellaneous contamination. Notes: 8, 13 and 16 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | Tie Coat Primer: | Acrylic Bonding Primer | SBp-15 | 2.0-3.0 |
| 3) | Second Coat: | One-Part Water Based Epoxy | SBc-09 | 2.5-3.0 |
| 4) | Third Coat: | One-Part Water Based Epoxy | SBc-09 | 2.5-3.0 |

1. Wood Wall Surfaces:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Clean to remove dirt and miscellaneous contamination. Notes: 8, 12 and 13 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | Spot Primer: | Enamel Undercoat | SBp-09 | N/A |
| 3) | Tie Coat Primer: | Acrylic Bonding Primer | SBp-15 | 2.0-3.0 |
| 4) | Second Coat: | One-Part Water Based Epoxy | SBc-09 | 2.5-3.0 |
| 5) | Third Coat: | One-Part Water Based Epoxy | SBc-09 | 2.5-3.0 |

1. Varnished/Lacquer Wood Doors:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Clean to remove dirt and miscellaneous contamination. Note: 17 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | \*Spot Primer: | Satin Water Based Varnish | SBc-11 | N/A |
| 3) | First Coat | Satin Water Based Varnish | SBc-11 | 2.0-3.0 |
| 4) | Second Coat: | Satin Water Based Varnish | SBc-11 | 2.5-3.0 |

1. Concrete Floors – Opaque Finish – Moderate Duty:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Clean to remove dirt and miscellaneous contamination. Notes: 6, 8 and 18 if needed |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Acrylic Floor and Deck Paint | SBf-02 | 1.5-2.0 |
| 3) | Second Coat: | Acrylic Floor and Deck Paint | SBf-02 | 1.5-2.0 |

1. Concrete Floors – Pedestrian Walkway – Heavy Duty:

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Clean to remove dirt and miscellaneous contamination. Note: install per manufacturer recommendations |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | Polyurethane Base Coat | SBf-01 | 22.-25 |
| 3) | Second Coat: | Singe Component Aliphatic Polyurethane | SBf-01 | 2.0-2.6 |

1. Concrete Floors – Clear Finish (Solvent Based):

|  |  |  |
| --- | --- | --- |
| 1) | Surface Preparation: | Remove surface contamination. Note: 15 |
|  |  | Product Type | PCS No. | DFT (mils) |
| 2) | First Coat: | 40 percent Silane Water Repellant | SBs-01 | Note 18 |

25. **PAINT SYSTEM NOTES** – PREVIOUSLY PAINTED SURFACES:

1. Mildew and algae shall be treated prior to pressure cleaning by (1) a solution of one quart “household bleach” (3 – 6-percent sodium hypochlorite) to one-gallon potable water applied using a low-pressure sprayer, or (2) pressure cleaner with chemical injector using “pool chlorine” (10 – 12-percent sodium hypochlorite). Do not allow solutions to dry on the surface prior to pressure cleaning.
2. If pressure cleaning is used to completely remove/strip deteriorated paint, the surfaces shall be permitted to dry for a minimum of 72 hours prior to primer application.
3. Cracks in exterior stucco shall be patched using elastomeric patching compound using the “texture” that matches the surfaces being patched (e.g. sand textured or smooth textured).
4. Hairline cracks (i.e. less than 1/64-inch at its widest point) shall be patched using “brush grade” patch worked into the crack and flush with the surface.
5. Cracks between 1/64-inch and 1/8-inch shall be raked-out and wire brushed to remove loose materials. Patched with “knife grade” patch with build-up over the crack and sufficiently textured to match surrounding stucco texture. Two applications may be required.
6. Cracks larger than 1/8-inch shall be saw-cut to a uniform depth (e.g. 1/4 – 1/2-inch, wire brushed and vacuumed, install bond-breaking tape or closed-cell backer rod, install one-part polyurethane sealant (tooled flush). After 4-days of cure time, use “knife-grade” elastomeric patching compound to blend with surrounding stucco.
7. Tap surfaces to determine the soundness of the stucco. Locations to focus on are as follows: (1) where cracks are observed, (2) base of wall, (3) around windows and doors.
8. Remove loose stucco and mortar; patch using pre-mixed cementations patch (i.e. Euclid Eucopatch). For stucco, the mix shall be enhanced using a 100-percent acrylic additive (e.g. Euclid Flex-Con).
9. Scarify all surfaces to be coated to achieve a uniform anchor pattern for the subsequent coatings. Solvent wipe (e.g. denatured alcohol) to remove all particulate created because of abrading.
10. Steel surfaces showing signs of rust (bleed-through or blistering) shall be prepared in accordance with SSPC-SP 3, Power Tool Cleaning.
11. All loose, peeling paint, raised paint edges shall be scraped back until tightly bonded. Paint edges shall be sufficiently bonded so as not to be lifted by the blade of a dull putty knife.
12. DFT measurements shall not be used to verify conformance. The final appearance is the primary determination (e.g. sealed voids, uniform appearance, minimal roller texture, fully opaque etc.).
13. DFT shall be measured in accordance with SSPC-PA 2 Measurement of Dry Coating Thickness with magnetic gages and documented.
14. A mock-up application shall be performed and evaluated by the PA/E prior to beginning the full application. The manufacturer or third party shall perform “Rilem Tube” testing and at least two locations shall be measured (one location over a mortar joint). The results of the Rilem Tube testing shall be reported based on the amount of water-uptake and respective number of minutes (e.g. 1.0 mL in 15 minutes). The results of the testing will determine the pass-fail criteria for the entire project.
15. After the prime coat has been applied on wood surfaces, nail holes shall be filled with putty. Putty shall be brought flush with the surface of woodwork and sanded.
16. DFT measurements will not be used to verify conformance. The final appearance is the primary determination (e.g. fully opaque, uniform color and sheen, etc.).
17. Cure testing shall be performed by the paint/coating manufacturer or third party and include pH and general hardness.
18. Apply flood coat to the entire surface and maintain uniform wet-look for 20 minutes. If suction/penetration is observed, re-apply.
19. Cracks, damage and holes in interior stucco, plaster, and drywall shall be patched using proper patching compounds per manufactures recommendations using the “texture” that matches the surfaces being patched (e.g. sand textured or smooth textured).
20. Hairline cracks (i.e. less than 1/64-inch at its widest point) shall be patched using “brush grade” patch worked into the crack and flush with the surface.
21. Cracks between 1/64-inch and 1/8-inch shall be raked-out and wire brushed to remove loose materials. Patched with “knife grade” patch with build-up over the crack and sufficiently textured to match surrounding sub-straight texture. Two applications may be required.
22. Cracks larger than 1/8-inch shall be saw-cut to a uniform depth (e.g. 1/4 – 1/2-inch, wire brushed and vacuumed, install bond-breaking tape or closed-cell backer rod, install one-part polyurethane sealant (tooled flush). After 4-days of cure time, use “knife-grade” patching compounds to blend with surrounding surface to match texture.
23. Patch gouges and damage using stainable putty followed by sanding smooth and staining to match color.
24. Etch in accordance with ASTM D 4260 Acid Etching Concrete; utilize muriatic acid (20 Baume) to produce a porous substrate. Thoroughly rinse after effervescing action and do not allow drying prior to rinse. Test surfaces for pH and if found to be acidic, treat with a solution of sodium bicarbonate and water.

**\*\*\*END OF SECTION\*\*\***