SECTION 09 67 00

FLUID-APPLIED FLOORING

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\*\* NOTE TO SPECIFIER \*\* Dudick Inc., fluid-applied flooring.  
This section is based on the products of Dudick Inc., which is located at:  
1818 Miller Pkwy.  
Streetsboro, OH 44241  
Toll Free: 800-322-1970  
Phone: 330-562-1970  
Fax: 330-562-7638  
Email: sales@dudick.com  
Web: dudick.com  
[Click Here] for additional information.  
Dudick Inc. located in Northeast Ohio is a world leader in High Performance Coatings, Floorings, and Tank Linings. For over 40 years we have provided solutions in corrosion resistance and chemical containment systems for food processing, steel production, chemical processing, pulp and paper, electronics, power, and biological research labs. Our products meet the stringent requirements of FDA, USDA, and NSF. We currently manufacture in Streetsboro, Ohio; Kaohsiung, Taiwan; Seoul, Korea; and Buenos Aires, Argentina.

1. GENERAL
   1. SECTION INCLUDES

\*\* NOTE TO SPECIFIER \*\* Delete items below not required for project.

* + 1. Industrial Solid Coatings of the Following Types:
       1. Polymer Alloy Series.
       2. Protecto Coat Series.
       3. Protecto Crete Series.
       4. Protecto Flake Series.
       5. Protecto Flex Series.
       6. Protecto Glass Series.
       7. Protecto Line Series.
       8. Shock Crete Series.
    2. Architectural Solid Coatings of the Following Types:
       1. Steri Flor Series.
       2. Steri Crete.
       3. Steri Coat Series.
       4. Steri Glass.
       5. Steri Seal Series.
       6. Sealers.
    3. Architectural Flake Floor Coatings of the Following Types:
       1. Steri Flake Series.
       2. Steri Soft Series.
    4. Architectural Quartz Floor Coatings: Steri Quartz Series.
    5. Other Coatings of the Following Types:
       1. Polymer Concrete Series.
       2. Polymer Steel Series.
       3. Steri Flex Series.
       4. Vapor-Stop Series.
    6. Accessories and Components of the Following Types:
       1. Grouts.
       2. Block filler.
       3. Sealants.
       4. Fillers.
       5. Gel-Coat Series.
       6. Membranes.
       7. Hardener.
       8. Primers.
       9. Solvents.
       10. Scratch-Coat Series.
       11. Steri-Cove Gel.
       12. Styrene.
  1. RELATED SECTIONS

\*\* NOTE TO SPECIFIER \*\* Delete any sections below not relevant to this project; add others as required.

* + 1. Section 03 30 00 - Cast-in-Place Concrete.
    2. Section 03 63 00 - Epoxy Grouting.
    3. Section 05 10 00 - Structural Metal Framing.
    4. Section 05 50 00 - Metal Fabrications.
    5. Section 07 90 00 - Joint Protection.
    6. Section 09 90 00 - Painting and Coating.
  1. REFERENCES

\*\* NOTE TO SPECIFIER \*\* Delete references from the list below that are not actually required by the text of the edited section.

* + 1. ASTM International (ASTM):
       1. ASTM C307 - Standard Test Method For Tensile Strength Of Chemical-Resistant Mortar, Grouts, And Monolithic Surfacings.
       2. ASTM C413 - Standard Test Method for Absorption of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes.
       3. ASTM C423 - Standard Test Method for Sound Absorption and Sound Absorption Coefficients by the Reverberation Room Method.
       4. ASTM C579 - Standard Test Methods for Compressive Strength of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes.
       5. ASTM C580 - Standard Test Method for Flexural Strength and Modulus of Elasticity of Chemical-Resistant Mortars, Grouts, Monolithic Surfacings, and Polymer Concretes.
       6. ASTM D307 - Method of Test for Spectral Characteristics and Color of Objects and Materials.
       7. ASTM D412 - Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers - Tension.
       8. ASTM D635 - Standard Test Method for Rate of Burning and/or Extent and Time of Burning of Plastics in a Horizontal Position.
       9. ASTM D638 - Standard Test Method for Tensile Properties of Plastics.
       10. ASTM D695 - Standard Test Method for Compressive Properties of Rigid Plastics.
       11. ASTM D1894 - Standard Test Method for Static and Kinetic Coefficients of Friction of Plastic Film and Sheeting.
       12. ASTM D4060 - Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser.
       13. ASTM D4541 - Standard Test Method for Pull-Off Strength of Coatings Using Portable Adhesion Testers.
       14. ASTM D7234 - Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers.
       15. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials.
       16. ASTM F150 - Standard Test Method for Electrical Resistance of Conductive and Static Dissipative Resilient Flooring.
    2. Food and Drug Administration (FDA).
    3. National Fire Protection Association (NFPA):
       1. NFPA 99
    4. United States Department of Agriculture (USDA).
    5. US Military Standard 810E - Environmental Engineering Considerations and Laboratory Tests.
  1. SUBMITTALS
     1. Submit under provisions of Section 01 30 00.
     2. Product Data:
        1. Manufacturer's data sheets on each product to be used.
        2. Preparation instructions and recommendations.
        3. Storage and handling requirements and recommendations.
        4. Typical installation methods.

\*\* NOTE TO SPECIFIER \*\* Delete if not applicable to product type.

* + 1. Verification Samples: Two representative units of each type, size, pattern and color.
    2. Shop Drawings: Include details of materials, construction and finish. Include relationship with adjacent construction.
  1. QUALITY ASSURANCE
     1. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum five years documented experience.
     2. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
     3. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

\*\* NOTE TO SPECIFIER \*\* Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

* + 1. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
       1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
       2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
       3. Retain mock-up during construction as a standard for comparison with completed work.
       4. Do not alter or remove mock-up until work is completed or removal is authorized.
  1. PRE-INSTALLATION CONFERENCE
     1. Convene a conference approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items and approvals.
  2. DELIVERY, STORAGE, AND HANDLING
     1. Store and handle in strict compliance with manufacturer's written instructions and recommendations.
     2. Protect from damage due to weather, excessive temperature, and construction operations.
  3. PROJECT CONDITIONS
     1. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
  4. WARRANTY
     1. Manufacturer's standard limited warranty unless indicated otherwise.

1. PRODUCTS
   1. MANUFACTURERS
      1. Acceptable Manufacturer: Dudick Inc., which is located at: 1818 Miller Pkwy.; Streetsboro, OH 44241; ASD Toll Free Tel: 800-322-1970; Tel: 330-562-1970; Fax: 330-562-7638; Email: [request info](http://admin.arcat.com/users.pl?action=UserEmail&company=Dudick+Inc.&coid=40963&rep=&fax=330-562-7638&message=RE:%2520Spec%2520Question%2520(09670dud):%2520%2520&mf=); Web: <http://www.dudick.com>

\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

* + 1. Substitutions: Not permitted.
    2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. INDUSTRIAL SOLID COATINGS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Polymer Alloy 1000 and Polymer Alloy 1000SF, High Solids, Multi-Functional Epoxy Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Standards Compliance: USDA compliant.
          2. Chemical Resistance: Dilute inorganic acids, dilute alkali solutions, aliphatic organic solvents, mineral oils, salt solutions.
          3. Low odor and low-VOC.
          4. Compressive Strength, ASTM C579: Greater than 12,000 psi (82,740 kPa).
          5. Tensile Strength, ASTM D638: 5200 psi (35,850 kPa).
          6. Flexural Strength, ASTM C580: 6800 psi (46,880 kPa).
          7. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          8. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          9. Water Absorption, ASTM C413: 0.0324 percent.

\*\* NOTE TO SPECIFIER \*\* Delete option not required.

* + - 1. Polymer Alloy 1000: Semi-self-leveling. Thickness: 0.020 inch (0.51 mm).
      2. Polymer Alloy 1000SF: Seeded and troweled for skid resistance. Thickness: 1/16 to 1/8 inch (1.6 to 3.2 mm).

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Finish: High-gloss.
      2. Finish: Satin.
    1. Basis of Design: Polymer Alloy 1200 and Polymer Alloy 1200SF, High Build Epoxy Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, aliphatic hydrocarbons, sodium hydroxide, mineral oils, salt and brine solutions.
          2. Tensile Elongation, ASTM C307: 10 percent.
          3. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          4. Pencil Hardness: 2H to 3H.
          5. Coefficient of Friction, ASTM C1028: Dry 0.82, Wet 0.83.

\*\* NOTE TO SPECIFIER \*\* Delete option not required.

* + - 1. Polymer Alloy 1200: Roller applied. Thickness: 0.012 to 0.015 inch (0.30 to 0.38 mm).
      2. Polymer Alloy 1200SF: Seeded and troweled for skid resistance. Thickness: 1/16 to 1/8 inch (1.6 to 3.2 mm).
    1. Basis of Design: Polymer Alloy 2000 and Polymer Alloy 2000SF, 100 Percent Solids, Multi-Functional Epoxy Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Standards Compliance: USDA compliant.
          2. Chemical Resistance: Dilute inorganic acids, dilute alkali solutions, aliphatic organic solvents, mineral oils, salt solutions.
          3. Low odor and low-VOC.
          4. Compressive Strength, ASTM C579: Greater than 12,000 psi (82,740 kPa).
          5. Tensile Strength, ASTM D638: 5000 psi (34,470 kPa).
          6. Flexural Strength, ASTM C580: 7200 psi (49,640 kPa).
          7. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          8. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          9. Water Absorption, ASTM C413: 0.0324 percent.

\*\* NOTE TO SPECIFIER \*\* Delete option not required.

* + - 1. Polymer Alloy 2000: Semi-self-leveling. Thickness: 0.020 inch (0.51 mm).
      2. Polymer Alloy 2000SF: Seeded and troweled for skid resistance. Thickness: 1/16 to 1/8 inch (1.6 to 3.2 mm).

\*\* NOTE TO SPECIFIER \*\* Delete finish option not required.

* + - 1. Finish: High-gloss.
      2. Finish: Satin.
    1. Basis of Design: Polymer Alloy 2000C, 100 Percent Solids, Multi-Functional, Conductive, Semi-Self Leveling Epoxy Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Standards Compliance: USDA compliant.
          2. Chemical Resistance: Dilute inorganic acids, dilute alkali solutions, aliphatic organic solvents, mineral oils, salt solutions.
          3. Low odor and low-VOC.
          4. Compressive Strength, ASTM C579: Greater than 6,000 psi (41,370 kPa).
          5. Tensile Strength, ASTM D307: 2200 psi (15,170 kPa).
          6. Flexural Strength, ASTM C580: 1800 psi (12,410 kPa).
          7. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          8. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          9. Resistivity, ASTM F150: 25,000 to 1,000,000 Ohms.
       2. Thickness: 0.020 inch (0.51 mm).
       3. Finish: High-gloss.
    2. Basis of Design: Polymer Alloy 2000SD, 100 Percent Solids, Static Dissipative, Multi-Functional, Semi-Self Leveling Epoxy Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Standards Compliance: USDA compliant.
          2. Chemical Resistance: Dilute inorganic acids, dilute alkali solutions, aliphatic organic solvents, mineral oils, salt solutions.
          3. Low odor and low-VOC.
          4. Compressive Strength, ASTM C579: Greater than 6,000 psi (41,370 kPa).
          5. Tensile Strength, ASTM D307: 2200 psi (15,170 kPa).
          6. Flexural Strength, ASTM C580: 1800 psi (12,410 kPa).
          7. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          8. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          9. Resistivity, ASTM F150: 1,000,000 to 1,000,000,000 Ohms.
       2. Thickness: 0.015 inch (0.38 mm).
       3. Finish: High-gloss.
    3. Basis of Design: Protecto-Coat 100XT, Flake Filled, High Performance, 100 Percent Solids, Novolac Epoxy Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Inorganic acids, alkali solutions, salts, sulfuric acid, oils, solvents.
          2. Low odor and low-VOC.
          3. Compressive Strength, ASTM C579: Minimum 9,000 psi (62,050 kPa).
          4. Tensile Strength, ASTM D307: Minimum 3000 psi (20,680 kPa).
          5. Flexural Strength, ASTM C580: Minimum 5000 psi (34,470 kPa).
          6. Taber Abrasion,ASTM D4060: 0.0018 ounces (50 mg).
          7. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
       2. Applied in two coats.
       3. Total Thickness: 0.030 to 0.040 inch (0.76 to 1.0 mm).
    4. Basis of Design: Protecto-Coat 1130, High Solids, High Performance, Multi-Function Epoxy Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Inorganic acids, alkali solutions, salts, oils, solvents.
          2. Low odor and low-VOC.
          3. Compressive Strength, ASTM C579: 12,000 psi (82,740 kPa).
          4. Tensile Strength, ASTM D307: 4000 psi (27,580 kPa).
          5. Taber Abrasion, ASTM D4060: 0.0020 ounces (58 mg).
          6. Flexural Strength, ASTM C580: 6000 psi (41,370 kPa).
          7. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
       2. Applied in two coats.
       3. Total Thickness: 0.030 to 0.040 inch (0.76 to 1.0 mm).
    5. Basis of Design: Protecto-Coat 300, 100 Percent Solids, High Build Epoxy Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compliance: USDA and FDA compliant.
          2. Chemical Resistance: Dilute inorganic acids, aliphatic hydrocarbons, sodium hydroxide, ammonium hydroxide, salt and brine, mineral oils.
          3. Low odor and low-VOC.
          4. Taber Abrasion, ASTM D4060: 0.0042 ounces (120 mg).
          5. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          6. Fungus Resistance,U.S. Military Standard 810E: No Growth.

\*\* NOTE TO SPECIFIER \*\* Delete coat option not required.

* + - 1. Coats: One.
      2. Coats: Two.
      3. Coat Thickness: 0.015 to 0.020 inch (0.38 to 0.51 mm).
    1. Basis of Design: Protecto-Coat 306DTR, High Solids, Flake Filled, Self-Priming, Direct-to-Rust Epoxy Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acid fumes, dilute alkali fumes, organic solvent fumes, salt solutions, mineral oils.
          2. Taber Abrasion, ASTM D4060: 0.0036 ounces (101 mg).
          3. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
       2. Thickness: 0.008 to 0.010 inch (0.20 to 0.25 mm).
    2. Basis of Design: Protecto-Coat 325, 100 Percent Solids, High Build Epoxy Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Sodium hydroxide, salt and brine solutions, mineral oils.
          2. Taber Abrasion, ASTM D4060: 0.0032 ounces (92 mg).
          3. Tensile Elongation,ASTM C307 : 10 percent.
          4. Tensile Strength, ASTM C307: 2870 psi (19,790 kPa).
       2. Applied in two coats.
       3. Total Thickness: 0.012 to 0.016 inch (0.30 to 0.41 mm).
    3. Basis of Design: Protecto-Coat 330, Flake-Filled, High Build Epoxy Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, aliphatic hydrocarbons, sodium hydroxide, salt and brine solutions, mineral oils, ammonium hydroxide.
          2. Taber Abrasion, ASTM D4060: 0.0032 ounces (92 mg).
          3. Tensile Elongation, ASTM C307 : 10 percent.
          4. Tensile Strength, ASTM C307: 2870 psi (19,790 kPa).
       2. Applied in two coats.
       3. Total Thickness: 0.012 to 0.016 inch (0.30 to 0.41 mm).
    4. Basis of Design: Protecto-Coat 800 and Protecto-Coat 805, Flake-Filled, Vinyl Ester Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compliance: FDA compliant.
          2. Chemical Resistance: Organic acids, inorganic acids, alkali solutions, salts, oils.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Protecto-Coat 805: Increased protection against fluorides and higher caustic concentrations.
        2. Tensile Strength, ASTM C307: Minimum 2500 psi (17,240 kPa).
        3. Flexural Strength, ASTM C580: Minimum 5000 psi (34,470 kPa).
        4. Taber Abrasion, ASTM D4060: 0.00081 ounces (23 mg).
        5. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
      1. Applied in two coats.
      2. Total Thickness: 0.030 to 0.040 inch (0.76 to 1.0 mm).
    1. Basis of Design: Protecto-Coat 800FR, Fire Retardant Class A, Vinyl Ester Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compliance: FDA compliant.
          2. Fire Retardant, Class A.
          3. Chemical Resistance: Organic acids, inorganic acids, alkali solutions, salts, oils.
          4. Tensile Strength, ASTM C307: Minimum 2500 psi (17,240 kPa).
          5. Flexural Strength, ASTM C580: Minimum 5000 psi (34,470 kPa).
          6. Taber Abrasion, ASTM D4060: 0.0018 ounces (50 mg).
          7. Flame Spread Index,ASTM E84: 10.
          8. Smoke Development Index, ASTM E84: 160.
       2. Applied in two coats.
       3. Total Thickness: 0.030 to 0.040 inch (0.76 to 1.0 mm).
    2. Basis of Design: Protecto-Coat 800NS, Polyetrafluoroethylene (PTFE) Filled, Vinyl Ester Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compliance: FDA compliant.
          2. Chemical Resistance: Organic acids, inorganic acids, alkali solutions, salts, oils.
          3. Tensile Strength, ASTM C307: Minimum 2500 psi (17,240 kPa).
          4. Flexural Strength, ASTM C580: Minimum 5000 psi (34,470 kPa).
          5. Taber Abrasion, ASTM D4060: 0.0003 ounces (8 mg).
          6. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
       2. Thickness: 0.030 to 0.060 inch (0.76 to 1.4 mm).
    3. Basis of Design: Protecto-Coat 800HT, Glass Flake-Filled, Spray Applied Vinyl Ester Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compliance: FDA compliant.
          2. Chemical Resistance: Organic acids, inorganic acids, alkali solutions, salts, oils.
          3. Tensile Strength, ASTM C307: Minimum 2500 psi (17,240 kPa).
          4. Flexural Strength, ASTM C580: Minimum 5000 psi (34,470 kPa).
          5. Taber Abrasion, ASTM D4060: 0.00071 ounces (20 mg).
          6. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
       2. Applied in two or three coats.
       3. Total Thickness: 0.030 to 0.060 inch (0.76 to 1.4 mm).
    4. Basis of Design: Protecto-Coat 900 and Protecto-Coat 905, Flake-Filled, Novolac Vinyl Ester Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, alkali solutions, solvents, salts, oils.

\*\* NOTE TO SPECIFIER \*\* Following two subparagraphs are for Protecto-Coat 905 only. Delete if not required.

* + - * 1. Protecto-Coat 905: Increased protection against fluorides and higher caustic concentrations.
        2. Protecto-Coat 905, Electrical Properties, ASTM F150 and NFPA 99: 1.5 to 2.0 Megaohms.
        3. Tensile Strength, ASTM C307: Minimum 2500 psi (17,240 kPa).
        4. Flexural Strength, ASTM C580: Minimum 5000 psi (34,470 kPa).
        5. Taber Abrasion, ASTM D4060: 0.0008 ounces (23 mg).
        6. Flame Spread Index, ASTM E84: 35.
        7. Smoke Development Index, ASTM E84: 130.
      1. Applied in two coats.
      2. Total Thickness: 0.030 to 0.040 inch (0.76 to 1.0 mm).
    1. Basis of Design: Protecto-Coat 900NS, Polyetrafluoroethylene (PTFE) Filled, High Performance, Novolac Vinyl Ester Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, alkali solutions, solvents, salts, oils.
          2. Tensile Strength, ASTM C307: Minimum 2500 psi (17,240 kPa).
          3. Flexural Strength, ASTM C580: Minimum 5000 psi (34,470 kPa).
          4. Taber Abrasion, ASTM D4060: 0.0003 ounces (8 mg).
          5. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          6. Friction Coefficient,ASTM D1894: Static 0.12, Kinetic 0.17.
       2. Applied in two or three coats.
       3. Total Thickness: 0.030 to 0.060 inch (0.76 to 1.4 mm).
    2. Basis of Design: Protecto-Coat 900HT, Glass Flake Filled, High Performance, Spray Applied, Novolac Vinyl Ester Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, alkali solutions, solvents, salts, oils.
          2. Tensile Strength, ASTM C307: Minimum 2500 psi (17,240 kPa).
          3. Flexural Strength, ASTM C580: Minimum 5000 psi (34,470 kPa).
          4. Taber Abrasion, ASTM D4060: 0.0007 ounces (20 mg).
          5. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          6. Friction Coefficient, ASTM D1894: Static 0.12, Kinetic 0.17.
       2. Applied in two or three coats.
       3. Total Thickness: 0.030 to 0.060 inch (0.76 to 1.4 mm).
    3. Basis of Design: Protecto-Coat 900HT-Plus, Glass Flake Filled, High Temperature, High Performance, Spray Applied, Novolac Vinyl Ester Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, alkali solutions, solvents, salts, oils.
          2. Temperature Limits:

Immersion: Up to 180 degrees F (82 degrees C).

Dry, Continuous: Up to 410 degrees F (210 degrees C).

Dry, Intermittent: Up to 450 degrees F (232 degrees C).

* + - * 1. Tensile Strength, ASTM C307: Minimum 2500 psi (17,240 kPa).
        2. Flexural Strength, ASTM C580: Minimum 5000 psi (34,470 kPa).
        3. Taber Abrasion, ASTM D4060: 0.0007 ounces (20 mg).
        4. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
        5. Friction Coefficient, ASTM D1894: Static 0.12, Kinetic 0.17.
      1. Applied in two or three coats.
      2. Total Thickness: 0.030 to 0.060 inch (0.76 to 1.4 mm).
    1. Basis of Design: Protecto-Coat 900FR and Protecto-Coat 905FR, Fire Retardant Class A, Flake-Filled, Novolac Vinyl Ester Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, alkali solutions, solvents, salts, oils.

\*\* NOTE TO SPECIFIER \*\* Following two subparagraphs are for Protecto-Coat 905FR only. Delete if not required.

* + - * 1. Protecto-Coat 905: Increased protection against fluorides and higher caustic concentrations.
        2. Protecto-Coat 905, Electrical Properties, ASTM F150 and NFPA 99: 1.5 to 2.0 Megaohms.
        3. Tensile Strength, ASTM C307: Minimum 2500 psi (17,240 kPa).
        4. Flexural Strength, ASTM C580: Minimum 5000 psi (34,470 kPa).
        5. Taber Abrasion, ASTM D4060: 0.0008 ounces (23 mg).
        6. Flame Spread Index, ASTM E84: 10.
        7. Smoke Development Index, ASTM E84: 160.
      1. Applied in two coats.
      2. Total Thickness: 0.030 to 0.040 inch (0.76 to 1.0 mm).
    1. Basis of Design: Protecto-Coat EPG, Epoxy Phenolic Glass Flake Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Sour and sweet crude, waste water, salt water, MTBE, weak acids and weak caustics with PH of 2.5 to 11, most aliphatic and aromatic compounds.
          2. Self-priming.
       2. Applied in two coats.
       3. Total Thickness: 0.012 to 0.014 inch (0.30 to 0.36 mm).
    2. Basis of Design: Protecto-Coat PS, Elastomeric Polysulfide Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Aliphatic hydrocarbons, toluene and higher boiling aromatics, fuel oil, crude oil, butyl acetate and higher boiling esters, most acids and bases.
          2. Self-priming.
          3. Tensile Strength, ASTM D412: Minimum 450 psi (3100 kPa).
          4. Elongation, ASTM D412: 20 percent.
       2. Thickness: 0.015 to 0.020 inch (0.38 to 0.51 mm).
    3. Basis of Design: Protecto-Crete 140T, Trowel Applied or Seeded Novolac Epoxy Topping and Resurfacer; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, alkaline solutions, solvents, salts, oils, sulfuric acid 98 percent.
          2. Compressive Strength, ASTM C579: Minimum 5000 psi (34,470 kPa).
          3. Tensile Strength, ASTM C307: Minimum 1500 psi (10,340 kPa).
          4. Flexural Strength, ASTM C580: Minimum 2200 psi (15,170 kPa).
          5. Taber Abrasion, ASTM D4060: 0.0021 ounces (60 mg).
          6. Cohesive Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Applied in one coat.
       3. Total Thickness: 3/16 inch (4.8 mm).
    4. Basis of Design: Protecto-Crete 140TSF, Seeded Novolac Epoxy Topping and Resurfacer; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, alkaline solutions, solvents, salts, oils, sulfuric acid 98 percent.
          2. Compressive Strength, ASTM C579: 9500 psi (65,500 kPa).
          3. Tensile Strength, ASTM C307: 2000 psi (13,790 kPa).
          4. Flexural Strength, ASTM C580: 2900 psi (19,990 kPa).
          5. Taber Abrasion, ASTM D4060: 0.0014 ounces (40 mg).
          6. Cohesive Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Applied in two coats with broadcast.
       3. Total Thickness: 1/16 to 1/8 inch (1.6 to 3.2 mm).
    5. Basis of Design: Protecto-Crete 800, Trowel Applied or Seeded Vinyl Ester Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, alkaline solutions, salts, oils.
          2. Compressive Strength, ASTM C579: 11,000 psi (75,840 kPa).
          3. Tensile Strength, ASTM C307: 1800 psi (12,410 kPa).
          4. Flexural Strength, ASTM C580: 3600 psi (24,820 kPa).
          5. Taber Abrasion, ASTM D4060: 0.0012 ounces (35 mg).
          6. Cohesive Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Thickness: 3/16 inch (4.8 mm).
    6. Basis of Design: Protecto-Crete 800SF, Seeded Novolac Epoxy Topping and Resurfacer; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, alkaline solutions, salts, oils.
          2. Compressive Strength, ASTM C579: 9500 psi (65,500 kPa).
          3. Tensile Strength, ASTM C307: 1800 psi (12,410 kPa).
          4. Flexural Strength, ASTM C580: 4000 psi (27,580 kPa).
          5. Taber Abrasion, ASTM D4060: 0.0018 ounces (51 mg).
          6. Cohesive Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Applied in two coats with broadcast.
       3. Total Thickness: 1/16 to 1/8 inch (1.6 to 3.2 mm).
    7. Basis of Design: Protecto-Crete 900, Trowel Applied or Seeded Novolac Vinyl Ester Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, solvents, alkali solutions, salts, oils.
          2. Compressive Strength, ASTM C579: 11,000 psi (75,840 kPa).
          3. Tensile Strength, ASTM C307: 1800 psi (12,410 kPa).
          4. Flexural Strength, ASTM C580: 3600 psi (24,820 kPa).
          5. Taber Abrasion, ASTM D4060: 0.0012 ounces (35 mg).
          6. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          7. Cohesive Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Thickness: 3/16 inch (4.8 mm).
    8. Basis of Design: Protecto-Crete 900SF, Seeded Novolac Vinyl Ester Topping and Resurfacer; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, solvents, alkali solutions, salts, oils.
          2. Compressive Strength, ASTM C579: 9500 psi (65,500 kPa).
          3. Tensile Strength, ASTM C307: 1800 psi (12,410 kPa).
          4. Flexural Strength, ASTM C580: 4000 psi (27,580 kPa).
          5. Taber Abrasion, ASTM D4060: 0.0018 ounces (51 mg).
          6. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          7. Cohesive Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Applied in two coats with broadcast.
       3. Total Thickness: 1/16 to 1/8 inch (1.6 to 3.2 mm).
    9. Basis of Design: Protecto-Crete 350SD, Squeegee Applied, 100 Percent Solids, Semi-Self-Leveling, Static Dissipative Epoxy Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute organic acids, dilute inorganic acids, some solvents, alkali solutions, salts, oils.
          2. Compressive Strength, ASTM C579: 7850 psi (54,120 kPa).
          3. Tensile Strength, ASTM C307: 1500 psi (10,340 kPa).
          4. Taber Abrasion, ASTM D4060: 0.0088 ounces (79 mg).
          5. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          6. Cohesive Bond Strength, ASTM D7234: Cohesive failure of concrete.
          7. Electronic Decay Time: Dissipates a 5000 volt charge in less than 0.1 second.
       2. Thickness: 0.055 to 0.060 inch (1.4 to 1.5 mm).
    10. Basis of Design: Protecto-Flake 800 and Protecto-Flake 900, Glass Flake-Filled, Trowel Applied, High Molecular Weight Vinyl Ester Tank Lining; as manufactured by Dudick Inc.
        1. Performance Requirements:

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Protecto-Flake 800 Compliance: FDA compliant.
        2. Chemical Resistance: Sulfuric acid, chromic acid, hydrochloric acid, phosphoric acid, nitric acid, acetic acid, fatty acids, chlorides, phosphates, sulfides, aliphatic solvents, aromatic solvents.

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Protecto-Flake 900: Improved chemical resistance to salts, acids, and organic solvents.
        2. Tensile Strength, ASTM C307: 3900 psi (26,890 kPa).
        3. Flexural Strength, ASTM C580: 9300 psi (64,120 kPa).
        4. Elongation, ASTM C307: 1 percent.
        5. Taber Abrasion, ASTM D4060: 0.0024 ounces (68 mg).
        6. Flame Spread, ASTM D635: 3.9 inches (100 mm).
        7. Adhesion to Steel,ASTM D4541: 2200 psi (15,170 kPa).
      1. Thickness: 0.060 to 0.080 inch (1.5 to 2.0 mm).
    1. Basis of Design: Protecto-Flex 100XT, Trowel Applied, Glass Reinforced, Epoxy Lining with Novolac Epoxy Topcoat; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Inorganic acids, solvents, alkali solutions, salts, oils.
          2. Compressive Strength, ASTM C579: 6000 psi (41,370 kPa).
          3. Tensile Strength, ASTM C307: Minimum 4500 psi (31,030 kPa).
          4. Tensile Elongation, ASTM C307: 12 to 15 percent.
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Base Coat: Flexibilized epoxy resin with silica fillers.
       3. Reinforcement: Fiberglass mat.
       4. Topcoat: Novolac epoxy binder and overlapping flake fillers.
       5. Total Thickness: 0.100 to 0.110 inch (2.2 to 2.4 mm).
    2. Basis of Design: Protecto-Flex 310, Trowel Applied, Glass Reinforced, Epoxy Lining; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compliance: FDA acceptable.
          2. Chemical Resistance: Dilute inorganic acids, mineral oils, ammonium hydroxide, sodium hydroxide, brine solutions.
          3. Compressive Strength, ASTM C579: 6000 psi (41,370 kPa).
          4. Tensile Strength, ASTM C307: Minimum 4500 psi (31,030 kPa).
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Base Coat: Flexibilized epoxy resin with silica fillers.
       3. Reinforcement: Fiberglass mat.
       4. Topcoat: Amine cured epoxy resin and overlapping fillers.
       5. Total Thickness: 0.100 to 0.110 inch (2.2 to 2.4 mm).
    3. Basis of Design: Protecto-Flex 800, Trowel Applied, Glass Reinforced, Flexible Epoxy Lining with a Vinyl Ester Topcoat; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compliance: FDA compliant.
          2. Chemical Resistance: Organic acids, inorganic acids, mineral oils, ammonium hydroxide, sodium hydroxide, brine solutions, solvents.
          3. Compressive Strength, ASTM C579: 6000 psi (41,370 kPa).
          4. Tensile Strength, ASTM C307: Minimum 4500 psi (31,030 kPa).
          5. Tensile Elongation, ASTM C307: 12 to 15 percent.
          6. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Base Coat: Flexibilized epoxy resin with silica fillers.
       3. Reinforcement: Fiberglass mat.
       4. Topcoat: Vinyl ester resin.

\*\* NOTE TO SPECIFIER \*\* Broadcast is optional. Delete broadcast options not required.

* + - 1. Broadcast: Sand.
      2. Broadcast: Aluminum oxide.
      3. Total Thickness: 0.100 to 0.110 inch (2.2 to 2.4 mm).
    1. Basis of Design: Protecto-Flex 800SF, Trowel Applied, Glass Reinforced, Flexible Epoxy Lining with a Seeded Vinyl Ester Topcoat; as manufactured by Dudick Inc.
       1. Thickness: 0.120 to 0.140 inch (3.0 to 3.5 mm).
    2. Basis of Design: Protecto-Flex 805, Trowel Applied, Glass Reinforced, Epoxy Lining with a Graphite Filled Vinyl Ester Topcoat; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, mineral oils, ammonium hydroxide, sodium hydroxide, brine solutions, solvents, sodium hypochlorite.
          2. Compressive Strength, ASTM C579: 6000 psi (41,370 kPa).
          3. Tensile Strength, ASTM C307: Minimum 4500 psi (31,030 kPa).
          4. Tensile Elongation, ASTM C307: 12 to 15 percent.
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Base Coat: Flexibilized epoxy resin with silica fillers.
       3. Reinforcement: Fiberglass mat.
       4. Topcoat: Vinyl ester resin.

\*\* NOTE TO SPECIFIER \*\* Broadcast is optional. Delete broadcast options not required.

* + - 1. Broadcast: Sand.
      2. Broadcast: Aluminum oxide.
      3. Total Thickness: 0.100 to 0.110 inch (2.2 to 2.4 mm).
    1. Basis of Design: Protecto-Flex 900, Trowel Applied, Glass Reinforced, Flexible Epoxy Lining with a Flake Filled Vinyl Ester Intermediate Coat and Novolac Vinyl Ester Topcoat; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, mineral oils, ammonium hydroxide, sodium hydroxide, brine solutions, solvents.
          2. Compressive Strength, ASTM C579: 6000 psi (41,370 kPa).
          3. Tensile Strength, ASTM C307: Minimum 4500 psi (31,030 kPa).
          4. Tensile Elongation, ASTM C307: 12 to 15 percent.
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Base Coat: Flexibilized epoxy resin with silica fillers.
       3. Reinforcement: Fiberglass mat.
       4. Intermediate Coat: Vinyl ester resin.
       5. Topcoat: Novolac vinyl ester resin.

\*\* NOTE TO SPECIFIER \*\* Broadcast is optional. Delete broadcast options not required.

* + - 1. Broadcast: Sand.
      2. Broadcast: Aluminum oxide.
      3. Total Thickness: 0.100 to 0.110 inch (2.2 to 2.4 mm).
    1. Basis of Design: Protecto-Flex 905, Trowel Applied, Glass Reinforced, Flexible Epoxy Lining with a Graphite Filled Novolac Vinyl Ester Topcoat; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, mineral oils, ammonium hydroxide, sodium hydroxide, brine solutions, solvents.
          2. Compressive Strength, ASTM C579: 6000 psi (41,370 kPa).
          3. Tensile Strength, ASTM C307: Minimum 4500 psi (31,030 kPa).
          4. Tensile Elongation, ASTM C307: 12 to 15 percent.
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Base Coat: Flexibilized epoxy resin with silica fillers.
       3. Reinforcement: Fiberglass mat.
       4. Intermediate Coat: Vinyl ester resin.
       5. Topcoat: Novolac vinyl ester resin.

\*\* NOTE TO SPECIFIER \*\* Broadcast is optional. Delete broadcast options not required.

* + - 1. Broadcast: Sand.
      2. Broadcast: Aluminum oxide.
      3. Total Thickness: 0.100 to 0.110 inch (2.2 to 2.4 mm).
    1. Basis of Design: Protecto-Glass 1130, Trowel Applied, Reinforced, High Performance, Multi-Functional, 100 Percent Solids Epoxy Lining; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Inorganic acids, alkali solutions, solvents, salts, oils.
          2. Compressive Strength, ASTM C579: Minimum 6000 psi (41,370 kPa).
          3. Tensile Strength, ASTM C307: Minimum 4000 psi (27,580 kPa).
          4. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          5. Flame Spread, ASTM D635: 0.2 inches (5 mm).
          6. Taber Abrasion, ASTM D4060: 0.0020 ounces (58 mg).
       2. Basecoat: Epoxy resin and silica fillers.
       3. Reinforcement: Fiberglass mat.
       4. Topcoat: Epoxy resin with flake fillers.
       5. Thickness: 0.090 inch (2.3 mm).
    2. Basis of Design: Protecto-Glass 160XT, Trowel Applied, Reinforced, 100 Percent Solids, Novolac Epoxy Lining; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Sulfuric acid, dilute inorganic acids, alkali solutions, solvents, salts, oils.
          2. Compressive Strength, ASTM C579: Minimum 6000 psi (41,370 kPa).
          3. Tensile Strength, ASTM C307: Minimum 4000 psi (27,580 kPa).
          4. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          5. Flame Spread, ASTM D635: 1.3 inches (33 mm).
          6. Taber Abrasion, ASTM D4060: 0.0025 ounces (72 mg).
       2. Basecoat: Novolac epoxy resin and silica fillers.
       3. Reinforcement: Fiberglass mat.
       4. Topcoat: Novolac epoxy resin and overlapping flake fillers.
       5. Thickness: 0.090 inch (2.3 mm).
    3. Basis of Design: Protecto-Glass 860 and Protecto-Glass 865, Trowel Applied, Reinforced Vinyl Ester Lining and Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, fluorides, alkali solutions, salts, oils.
          2. Compressive Strength, ASTM C579: 12,500 psi (86,180 kPa).
          3. Tensile Strength, ASTM C307: 2400 psi (16,550 kPa).
          4. Flexural Strength, ASTM C580: 8600 psi (59,290 kPa).
       2. Base Coat: Vinyl ester resin and silica fillers.
       3. Reinforcement: Fiberglass mat.

\*\* NOTE TO SPECIFIER \*\* Delete topcoat option not required.

* + - 1. Protecto-Glass 860 Topcoat: Flake filled.
      2. Protecto-Glass 865 Topcoat: Graphite filled.
      3. Total Thickness: 0.090 inch (2.3 mm).
    1. Basis of Design: Protecto-Glass 960 and Protecto-Glass 965, Trowel Applied, Reinforced Novolac, Vinyl Ester Lining and Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, inorganic acids, fluorides, alkali solutions, salts, oils, solvents.
          2. Compressive Strength, ASTM C579: 12,500 psi (86,180 kPa).
          3. Tensile Strength, ASTM C307: 2400 psi (16,550 kPa).
          4. Flexural Strength, ASTM C580: 8600 psi (59,290 kPa).

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Protecto-Glass 965 Electrical Properties, ASTM F150 and NFPA 99: 1.5 to 2.0 Megaohms.
      1. Base Coat: Novolac vinyl ester resin and silica fillers.
      2. Reinforcement: Fiberglass mat.

\*\* NOTE TO SPECIFIER \*\* Delete topcoat option not required.

* + - 1. Protecto-Glass 960 Topcoat: Flake filled.
      2. Protecto-Glass 965 Topcoat: Graphite filled.
      3. Total Thickness: 0.090 inch (2.3 mm).
    1. Basis of Design: Protecto-Line 100XT and Protecto-Line 100XT AR, Trowel Applied, 100 Percent Solids, Reinforced, Novolac Epoxy Lining and Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Concentrated inorganic acids, dilute organic acids, alkali solutions, salts, oils, solvents.
          2. Compressive Strength, ASTM C579: 14,000 psi (96,530 kPa).
          3. Tensile Strength, ASTM C307: 2700 psi (18,620 kPa).
          4. Flame Spread, ASTM D635: 0.39 inches (10 mm).
          5. Taber Abrasion, ASTM D4060: 0.00071 ounces (20 mg).
       2. Base Coat: Filled with graded silica.
       3. Reinforcement: Fiberglass or synthetic fabric.

\*\* NOTE TO SPECIFIER \*\* Delete topcoat option not required.

* + - 1. Protecto-Line 100XT Topcoat: Silica filled.
      2. Protecto-Line 100XT AR Topcoat: Aluminum oxide filled.
      3. Total Thickness: 0.125 inch (3.17 mm).
    1. Basis of Design: Protecto-Line 800, Protecto-Line 800 AR, and Protecto-Line 805, Trowel Reinforced, Vinyl Ester Lining and Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Concentrated inorganic acids, dilute organic acids, alkali solutions, salts, oils, solvents.
          2. Compressive Strength, ASTM C579: 12,500 psi (86,180 kPa).
          3. Tensile Strength, ASTM C307: 2400 psi (16,550 kPa).
          4. Flexural Strength, ASTM C580: 8600 psi (59,290 kPa).
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          6. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          7. Taber Abrasion, ASTM D4060: 0.0014 ounces (40 mg).

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Protecto-Line 805 Electrical Properties, ASTM F150 and NFPA 99: 0 to 200,000 Ohms.

\*\* NOTE TO SPECIFIER \*\* Delete Topcoat option not required.

* + - 1. Protecto-Line 800 and Protecto-Line 800AR Base Coat: Silica filled.
      2. Protecto-Line 805 Base Coat: Carbon filled.
      3. Protecto-Line 800 and Protecto-Line 800AR Reinforcement: Fiberglass roving.
      4. Protecto-Line 805 Reinforcement: Synthetic fabric.

\*\* NOTE TO SPECIFIER \*\* Delete topcoat options not required.

* + - 1. Protecto-Line 800 Topcoat: Silica filled.
      2. Protecto-Line 800AR Topcoat: Aluminum oxide filled.
      3. Protecto-Line 805 Topcoat: Carbon filled.
      4. Total Thickness: 0.125 inch (3.17 mm).
    1. Basis of Design: Protecto-Line 900, Protecto-Line 900 AR, and Protecto-Line 905, Trowel Reinforced, Novolac Vinyl Ester Lining and Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Inorganic acids, organic acids, dilute alkali solutions, fluorides, salts, oils, solvents.
          2. Compressive Strength, ASTM C579: 12,500 psi (86,180 kPa).
          3. Tensile Strength, ASTM C307: 2400 psi (16,550 kPa).
          4. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          5. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          6. Taber Abrasion, ASTM D4060: 0.0014 ounces (40 mg).

\*\* NOTE TO SPECIFIER \*\* Delete if not required.

* + - * 1. Protecto-Line 905 Electrical Properties, ASTM F150 and NFPA 99: 0 to 200,000 Ohms.

\*\* NOTE TO SPECIFIER \*\* Delete Topcoat option not required.

* + - 1. Protecto-Line 900 and Protecto-Line 900AR Base Coat: Silica filled.
      2. Protecto-Line 905 Base Coat: Carbon filled.
      3. Protecto-Line 900 and Protecto-Line 900AR Reinforcement: Fiberglass roving.
      4. Protecto-Line 905 Reinforcement: Synthetic fabric.

\*\* NOTE TO SPECIFIER \*\* Delete topcoat options not required.

* + - 1. Protecto-Line 900 Topcoat: Silica filled.
      2. Protecto-Line 900AR Topcoat: Aluminum oxide filled.
      3. Protecto-Line 905 Topcoat: Carbon filled.
      4. Total Thickness: 0.125 inch (3.17 mm).
    1. Basis of Design: Shock-Crete 500, High Solids, Two Component Sealer; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Water, solvents, sodium hydroxide, dilute inorganic acids, dilute organic acids, jet fuel, gasoline, oils.
          2. Tensile Strength, ASTM D638: 4100 psi (28,270 kPa).
          3. Elongation, ASTM D638: 110 percent.
          4. Die-Tear, ASTM D624: 500 psi (3450 kPa).
       2. Thickness: 0.005 to 0.015 inch (0.13 to 0.38 mm).
    2. Basis of Design: Shock-Crete HD, Trowel Applied, Water Dispersed Polyurethane Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, organic acids, alkali solutions, salts, oils, aliphatic solvents.
          2. Compressive Strength, ASTM C579A: 7300 psi (50,330 kPa).
          3. Tensile Strength, ASTM C307: 825 psi (5690 kPa).
          4. Flexural Strength, ASTM C580: 1800 psi (12,410 kPa).
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Coating: Self-priming, aggregate filled, polyurethane.
       3. Thickness: 1/4 to 3/8 inch (6.3 to 9.5 mm).
    3. Basis of Design: Shock-Crete SL and Shock-Crete SF, Semi-Self Leveling or Seeded, Water Dispersed Polyurethane Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, organic acids, alkali solutions, salts, oils, aliphatic solvents.
          2. Compressive Strength, ASTM C579A: 6800 psi (46,880 kPa).
          3. Tensile Strength, ASTM C307: 1050 psi (7239 kPa).
          4. Flexural Strength, ASTM C580: 2600 psi (17,930 kPa).
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.

\*\* NOTE TO SPECIFIER \*\* Delete coating option not required.

* + - 1. Shock-Crete SL Coating: Urethane.
      2. Shock-Crete SF Coating: Seeded urethane.
      3. Thickness: 1/16 to 3/16 inch (1.6 to 4.8 mm).
    1. Basis of Design: Shock-Crete MD and Shock-Crete MD SF, Semi-Self Leveling or Seeded, Water Dispersed Polyurethane Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, organic acids, alkali solutions, salts, oils, aliphatic solvents.
          2. Compressive Strength, ASTM C579A: 8000 psi (55,160 kPa).
          3. Tensile Strength, ASTM C307: 1000 psi (6895 kPa).
          4. Flexural Strength, ASTM C580: 2200 psi (15,170 kPa).
          5. Taber Abrasion, ASTM D4060: 0.0025 ounces (70 mg).
          6. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.

\*\* NOTE TO SPECIFIER \*\* Delete coating option not required.

* + - 1. Shock-Crete MD Coating: Aggregate filled urethane.
      2. Shock-Crete MD SF Coating: Seeded urethane.
      3. Thickness: 3/16 to 1/4 inch (4.8 to 6.3 mm).
    1. Primer and Sealer:

\*\* NOTE TO SPECIFIER \*\* Delete primer options not required.

* + - 1. Primer: As indicated on Drawings.
      2. Primer: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Confirm if sealer is required. Delete sealer options not required.

* + - 1. Sealer: As indicated on Drawings.
      2. Sealer: \_\_\_\_\_.
    1. Colors:

\*\* NOTE TO SPECIFIER \*\* Confirm colors available for products selected. Delete color options not required.

* + - 1. Color: Dark Gray - 970.
      2. Color: Medium Gray - 971.
      3. Color: Light Gray - 972.
      4. Color: Dark Green - 973.
      5. Color: Light Green - 974.
      6. Color: Dark Blue - 975.
      7. Color: Light Blue - 976.
      8. Color: Tan - 977.
      9. Color: Beige - 978.
      10. Color: Tile Red - 979.
      11. Color: As indicated on Drawings.
      12. Color: To be selected by Architect.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. ARCHITECTURAL SOLID COATINGS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Steri-Flor GP, Semi Self-Leveling or Seeded High Solids General Purpose Epoxy Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Recycled Content: 15 percent.
          2. Chemical Resistance: Dilute inorganic acids, dilute alkali solutions, mineral oils, salt solutions, cleaning and sanitizing solutions.
          3. Low odor and low-VOC.
          4. Compressive Strength, ASTM C579: 12,000 psi (82,740 kPa).
          5. Tensile Strength, ASTM D638: 7200 psi (49,640 kPa).
          6. Flexural Strength, ASTM C580: 11,500 psi (79,290 kPa).
          7. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          8. Taber Abrasion, ASTM D4060: 0.0011 ounces (32 mg).
       2. Thickness: 0.010 to 0.015 inch (0.25 to 0.38 mm).
    2. Basis of Design: Steri-Flor Q, Solvent-Free, Heavy Duty, Decorative Quartz or Vinyl Flake Flooring; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, alkaline solutions, oils, salts.
          2. Low odor and low-VOC.
          3. Compressive Strength, ASTM C579: Minimum 7000 psi (48,260 kPa).
          4. Tensile Strength, ASTM C307: Minimum 1800 psi (12,410 kPa).
          5. Flexural Strength, ASTM C580: Minimum 2500 psi (17,240 kPa).
          6. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          7. Taber Abrasion, ASTM D4060: 0.0014 ounces (40 mg).
       2. Body Coat: Engineered aggregate filled.
       3. Grout Coat: Resin.

\*\* NOTE TO SPECIFIER \*\* Delete topcoat option not required. Topcoats are not optional

* + - 1. Topcoat: Decorative quartz broadcast.
      2. Topcoat: Vinyl flake broadcast.
      3. Total Thickness: 1/4 inch (6.2 mm).
    1. Basis of Design: Steri-Flor T, Hybrid Epoxy, Heavy Duty Industrial Floor System; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compliance: USDA compliant.
          2. Chemical Resistance: Dilute inorganic acids, dilute alkali solutions, mineral oils, salt solutions, aliphatic organic solvents.
          3. Low odor and low-VOC.
          4. Compressive Strength, ASTM C579: Minimum 7000 psi (48,260 kPa).
          5. Tensile Strength, ASTM C307: Minimum 1800 psi (12,410 kPa).
          6. Flexural Strength, ASTM C580: Minimum 2500 psi (17,240 kPa).
          7. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          8. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
       2. Body Coat: Resin.
       3. Topcoat: UV and chemical resistant with stippled texture.
       4. Total Thickness: 3/16 to 1/4 inch (4.8 to 6.4 mm).
    2. Basis of Design: Steri-Flor T SL/SF, Semi-Self Leveling or Seed, Hybrid Epoxy, Heavy Duty Industrial Floor System; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, alkaline solutions, oils, salts.
          2. Low odor and low-VOC.
          3. Compressive Strength, ASTM C579: Minimum 8000 psi (55,160 kPa).
          4. Tensile Strength, ASTM C307: Minimum 1800 psi (12,410 kPa).
          5. Flexural Strength, ASTM C580: Minimum 2500 psi (17,240 kPa).
          6. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          7. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).

\*\* NOTE TO SPECIFIER \*\* Delete thickness options not required.

* + - 1. Thickness: 1/8 to 3/16 inch (3.2 to 4.8 mm).
      2. Thickness: 1 inch (25 mm).
      3. Thickness: \_\_\_\_\_.
    1. Basis of Design: Steri-Flor T-N, Hybrid Novolac Epoxy, Heavy Duty Industrial Floor System; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Inorganic acids, alkali solutions, oils, salts, solvents.
          2. Low odor and low-VOC.
          3. Compressive Strength, ASTM C579: Minimum 9000 psi (62,050 kPa).
          4. Tensile Strength, ASTM C307: Minimum 3000 psi (20,680 kPa).
          5. Flexural Strength, ASTM C580: Minimum 5000 psi (34,470 kPa).
          6. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          7. Taber Abrasion, ASTM D4060: 0.0025 ounces (72 mg).
       2. Thickness: 3/16 to 1/4 inch (4.8 to 6.4 mm).
    2. Basis of Design: Steri-Crete SL, Semi-Self Leveling, Water Dispersed, Polyurethane Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Organic acids, dilute inorganic acids, alkali solutions, oils, salts, aliphatic solvents.
          2. Low odor and low-VOC.
          3. Compressive Strength, ASTM C579: 7300 psi (50,330 kPa).
          4. Tensile Strength, ASTM C307: 825 psi (5690 kPa).
          5. Flexural Strength, ASTM C580: 1800 psi (12,410 kPa).
          6. Taber Abrasion, ASTM D4060: 0.0025 ounces (70 mg).
          7. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Thickness: 1/16 to 3/16 inch (1.6 to 4.8 mm).
    3. Basis of Design: Steri-Coat P, Multi-Functional, Pigmented, High-Build Epoxy Novolac Coating, for Wall and Ceiling Applications; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, aliphatic hydrocarbons, sodium hydroxide, salt and brine solutions, mineral oils.
          2. Low odor and low-VOC.
          3. Taber Abrasion, ASTM D4060: 0.0032 ounces (92 mg).
          4. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Thickness: 0.012 to 0.016 inch (0.30 to 0.41 mm).
    4. Basis of Design: Steri-Coat 200, Two Component, Water Borne, Alipathic Urethane Wall Coating, Class A Fire Rating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Low odor and low-VOC.
          2. Tensile Strength, ASTM D638: 8500 psi (58,610 kPa).
          3. Flame Spread Index, ASTM E84: 5.
          4. Smoke Developed Index, ASTM E84: 5.
       2. Thickness: 0.006 to 0.008 inch (0.15 to 0.20 mm).
    5. Basis of Design: Steri-Coat 400, Methyl Methacrylate, Light-Medium Traffic, Acrylic Floor System; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compliance: USDA and FDA compliance.
          2. Chemical Resistance: Dilute inorganic acids, alkaline solutions, salts, oils.
          3. Compressive Strength, ASTM C579: Minimum 8000 psi (55,160 kPa).
          4. Tensile Strength, ASTM C307: Minimum 1800 psi (12,410 kPa).
          5. Flexural Strength, ASTM C580: Minimum 2800 psi (19,310 kPa).
          6. Taber Abrasion, ASTM D4060: 0.0021 ounces (60 mg).
          7. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.

\*\* NOTE TO SPECIFIER \*\* Basecoat is optional. Delete options not required.

* + - 1. Basecoat: No broadcast.
      2. Basecoat: Aluminum oxide grit broadcast.
      3. Topcoat: UV and chemical resistant.
      4. Total Thickness: 0.020 to 0.040 inch (0.51 to 1.0 mm).
    1. Basis of Design: Steri-Glass, High Solids, Fiberglass Reinforced, High Build Epoxy Wall System; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, aliphatic hydrocarbons, sodium hydroxide, salt and brine solutions, mineral oils.
          2. Low odor and low-VOC.
          3. Taber Abrasion, ASTM D4060: 0.0032 ounces (92 mg).
          4. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Body Coat: Fiberglass reinforced hybrid binder.
       3. Thickness: 0.025 to 0.035 inch (0.64 to 0.89 mm).
    2. Basis of Design: Steri-Seal HB, High Solids, Multi-Functional, Spray Applied, Pigmented, High Build, Chemically Resistant Epoxy Coating, for Ceiling and Wall Applications; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, aliphatic hydrocarbons, sodium hydroxide, salt and brine solutions, mineral oils.
          2. Low odor and low-VOC.
          3. Taber Abrasion, ASTM D4060: 0.0021 ounces (60 mg).
          4. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Thickness: 0.030 to 0.040 inch (0.76 to 1.0 mm).
    3. Basis of Design: Steri-Seal HC, Multi-Functional, Pigmented, High Chemically Resistant Epoxy Coating, for Floor Applications; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, aliphatic hydrocarbons, sodium hydroxide, salt and brine solutions, mineral oils.
          2. Low odor and low-VOC.
          3. Taber Abrasion, ASTM D4060: 0.0042 ounces (120 mg).
          4. Tensile Strength, ASTM D638: 2870 psi (19,790 kPa).
          5. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
          6. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Thickness: 0.010 to 0.020 inch (0.25 to 0.51 mm).
    4. Basis of Design: Steri-Seal LE, Low Emission, Resinous Flooring and High Performance, Special Coating, 100 Percent Solids, Multi-Functional Epoxy Floor Topping; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compliance: USDA compliant.
          2. Chemical Resistance: Dilute inorganic acids, dilute alkali solutions, aliphatic organic solvents, salt solutions, mineral oils.
          3. Low odor and low-VOC.
          4. Compressive Strength, ASTM C579: 6000 psi (41,370 kPa).
          5. Tensile Strength, ASTM C307: 2200 psi (15,170 kPa).
          6. Flexural Strength, ASTM C580: 1800 psi (12,410 kPa).
          7. Taber Abrasion, ASTM D4060: 0.0012 ounces (35 mg).
          8. Flame Spread Index: Less than 40.
          9. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Thickness: 1/16 to 1/8 inch (1.6 to 3.2 mm).
    5. Basis of Design: Sealer 25, Two Component, Aliphatic, Polyurethane Sealer; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Water, solvents, sulfuric acid, sodium hydroxide, oils, gasoline, jet fuel, skydrol.
          2. Pencil Hardness: 2H.
       2. Thickness: 0.006 inch (0.15 mm).
    6. Basis of Design: Sealer 30, High Solids, Two Component, Aliphatic, Polyurethane Sealer; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Water, solvents, sodium hydroxide, dilute organic acids, dilute inorganic acids, oils, gasoline, jet fuel.
          2. Low VOC.
          3. Pencil Hardness: 2H.
       2. Thickness: 0.004 to 0.005 inch (0.10 to 0.13 mm).
    7. Basis of Design: Sealer 30 SD, Two Component, Aliphatic, Electrostatic Dissipative, Polyurethane Sealer; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Water, solvents, sulfuric acid, sodium hydroxide, oils, gasoline, jet fuel, skydrol.
          2. Low VOC.
          3. Pencil Hardness: 2H.
          4. Surface Resistivity: 1,000,000 to 1,000,000,000 ohms.
    8. Basis of Design: Sealer 50, Two Component, Nano Enhanced, Hybrid Fluoropolymer Sealer with High Stain and Wear Resistance; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Betadine, oils, gasoline, jet fuel, sodium hydroxide, peroxide, bleach solutions, solvents, sulfuric acid, skydrol, hydrogen.
          2. Outstanding color stability.
          3. Low VOC.
          4. Pencil Hardness: 2H.
    9. Basis of Design: Sealer 67, High Solids, Moisture-Tolerant, Epoxy Sealer for Concrete; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Low VOC.
          2. Tensile Strength, ASTM C307: Minimum 2000 psi (13,790 kPa).
          3. Tensile Elongation, ASTM C307: 12 to 15 percent.
          4. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          5. Adhesion to Steel, ASTM D4541: Minimum 2200 psi (15,170 kPa).
       2. Thickness: 0.003 to 0.004 inch (0.08 to 0.10 mm).
    10. Basis of Design: Sealer 70, High Solids, Two Component, Polyaspartic Sealer; as manufactured by Dudick Inc.
        1. Performance Requirements:
           1. Chemical Resistance: Water, solvents, sodium hydroxide, dilute organic acids, dilute inorganic acids, oils, gasoline, jet fuel.
           2. Excellent color stability.
           3. Low VOC.
           4. Tensile Strength, ASTM D638: 4100 psi (28,270 kPa).
           5. Elongation, ASTM D638: 110 percent.
        2. Thickness: 0.005 to 0.015 inch (0.13 to 0.38 mm).
    11. Basis of Design: Sealer 80, Two Component, Engineered Siloxane Epoxy Sealer; as manufactured by Dudick Inc.
        1. Performance Requirements:
           1. UV resistant.
           2. VOC: Less than 100 grams per liter.
           3. Solids Volume: 90 percent.
           4. High Gloss and high durability.
           5. Abrasion resistant.
           6. Resists dirt pickup, and easily cleaned.
           7. Isocyanate free.
        2. Thickness: 0.004 to 0.006 inch (0.10 to 0.15 mm).
    12. Basis of Design: Sealer 200 SD, Two Component, Water Borne, Aliphatic Urethane, Floor Coating; as manufactured by Dudick Inc.
        1. Performance Requirements:
           1. Low odor and low VOC.
           2. Tensile Strength, ASTM D638: 8500 psi (58,610 kPa).
           3. Tear Strength, ASTM D624: 450 psi (3100 kPa).
           4. Surface Resistivity: 1,000,000 to 1,000,000,000 ohms.
        2. Thickness: 0.006 to 0.008 inch (0.15 to 0.20 mm).
    13. Basis of Design: Sealer 200 WB, Two Component, Water Borne, Aliphatic Urethane, Electrostatic Dissipative Floor Coating; as manufactured by Dudick Inc.
        1. Performance Requirements:
           1. Low odor and low VOC.
           2. Tensile Strength, ASTM D638: 8500 psi (58,610 kPa).
           3. Tear Strength, ASTM D624: 450 psi (3100 kPa).
        2. Thickness: 0.005 to 0.006 inch (0.13 to 0.15 mm).
    14. Primer and Sealer:

\*\* NOTE TO SPECIFIER \*\* Delete primer options not required.

* + - 1. Primer: As indicated on Drawings.
      2. Primer: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Confirm if sealer is required. Delete sealer options not required.

* + - 1. Sealer: As indicated on Drawings.
      2. Sealer: \_\_\_\_\_.
    1. Colors:

\*\* NOTE TO SPECIFIER \*\* Confirm colors available for products selected. Delete color options not required.

* + - 1. Color: Light Gray - 100.
      2. Color: Medium Gray - 101.
      3. Color: Dark Gray - 102.
      4. Color: Beige - 200.
      5. Color: Sandstone - 201.
      6. Color: Desert Tan - 202.
      7. Color: Light Blue - 300.
      8. Color: Dark Blue - 301.
      9. Color: Midnight Blue - 302.
      10. Color: Gun Metal Blue - 303.
      11. Color: Aqua Blue - 304.
      12. Color: Brick Red - 400.
      13. Color: Bright Red - 401.
      14. Color: Light Green - 501.
      15. Color: Olive Green - 502.
      16. Color: Forest Green - 503.
      17. Color: Bright White - 600.
      18. Color: Eggshell - 601.
      19. Color: As indicated on Drawings.
      20. Color: To be selected by Architect.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. ARCHITECTURAL FLAKE COATINGS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Steri-Flake 400, Methyl Methacrylate, Light-Medium Traffic, Decorative Acrylic Flake Filled Floor System; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compliance: USDA and FDA compliant.
          2. Chemical Resistance: Salts, dilute inorganic acids, alkaline solutions, oils.
          3. Low VOC.
          4. Compressive Strength, ASTM C579: Minimum 8000 psi (55,160 kPa).
          5. Tensile Strength, ASTM C307: Minimum 1800 psi (12,410 kPa).
          6. Flexural Strength, ASTM C580: 2800 psi (19,310 kPa).
          7. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          8. Taber Abrasion, ASTM D4060: 0.0021 ounces (60 mg).
       2. Base Coat: Mineral filled with acrylic flake broadcast.
       3. Topcoat: UV and chemical resistant, high gloss. Up to three coats as required to encapsulate acrylic flake.
       4. Thickness: 1/16 to 1/8 inch (1.6 to 3.2 mm).
    2. Basis of Design: Steri-Flake 470, Hybrid Ester Polymer, Light-Medium Traffic, Flake Filled Floor System, Low Odor MMA Alternative; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compliance: USDA and FDA compliant.
          2. Chemical Resistance: Salts, dilute inorganic acids, alkaline solutions, oils.
          3. Low odor and low VOC.
          4. Compressive Strength, ASTM C579: Minimum 8000 psi (55,160 kPa).
          5. Tensile Strength, ASTM C307: Minimum 3000 psi (20,680 kPa).
          6. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          7. Taber Abrasion, ASTM D4060: 0.0014 ounces (40 mg).
       2. Base Coat: Low odor with acrylic flake broadcast.
       3. Grout Coat: UV and chemical resistant, high gloss.
       4. Topcoat: UV and chemical resistant, high gloss.
       5. Thickness: 1/16 to 1/8 inch (1.6 to 3.2 mm).
    3. Basis of Design: Steri-Flake GP, General Purpose, Light-Medium Traffic, Decorative Acrylic Flake Filled Floor System; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Salts, dilute inorganic acids, cleansing and sanitizing solutions, alkaline solutions, oils.
          2. Low odor and low VOC.
          3. Minimum 15 percent post industrial recycled content.
          4. Compressive Strength, ASTM C579: Minimum 8000 psi (55,160 kPa).
          5. Tensile Strength, ASTM C307: Minimum 1500 psi (10,340 kPa).
          6. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          7. Taber Abrasion, ASTM D4060: 0. 0021 ounces (60 mg).
       2. Body Coat: Pigmented mineral filled.
       3. Topcoat: UV and chemical resistant. Coats as required to encapsulate acrylic flake.
       4. Thickness: 1/16 to 1/8 inch (1.6 to 3.2 mm).
    4. Basis of Design: Steri-Soft, High Foot Traffic, Ultraviolet Resistant, Urethane Resilient Flooring System; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Low emitting.
          2. Minimum 27 percent post consumer recycled content.
          3. Noise Reduction Coefficient,ASTM C423: 0.05.
          4. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Body Coat: Gauge raked with flexible urethane resin binders.
       3. Sealer: High solids, satin finish.
       4. Thickness: 1/8 inch (3.2 mm).
    5. Basis of Design: Steri-Soft Flake, High Foot Traffic, Ultraviolet Resistant, Decorative, Urethane Resilient Flooring System; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Low emitting.
          2. Minimum 27 percent post consumer recycled content.
          3. Tensile Strength, ASTM D412: Minimum 1250 psi (8620 kPa).
          4. Noise Reduction Coefficient, ASTM C423: 0.05.
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Body Coat: Gauge raked with flexible urethane resin binders.
       3. Broadcast Coat: Vinyl flakes.
       4. Grout Coat: Fills porosity in body coat.
       5. Sealer: High solids, satin finish.
       6. Thickness: 1/8 inch (3.2 mm).
    6. Primer and Sealer:

\*\* NOTE TO SPECIFIER \*\* Delete primer options not required.

* + - 1. Primer: As indicated on Drawings.
      2. Primer: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Confirm if sealer is required. Delete sealer options not required.

* + - 1. Sealer: As indicated on Drawings.
      2. Sealer: \_\_\_\_\_.
    1. Colors:

\*\* NOTE TO SPECIFIER \*\* Confirm colors available for products selected. Delete color options not required.

* + - 1. Color: SF-20.
      2. Color: SF-21.
      3. Color: SF-22.
      4. Color: SF-23.
      5. Color: SF-24.
      6. Color: SF-25.
      7. Color: SF-26.
      8. Color: SF-27.
      9. Color: SF-28.
      10. Color: SF-29.
      11. Color: SF-30.
      12. Color: SF-31.
      13. Color: As indicated on Drawings.
      14. Color: To be selected by Architect.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. ARCHITECTURAL QUARTZ COATINGS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Steri-Quartz GP, General Purpose, Broadcast, UV Resistant, Light-Medium, Decorative Quartz Floor System; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Salts, dilute inorganic acids, cleaning and sanitizing solutions, alkaline solutions, and oils.
          2. Low odor and very low VOC.
          3. Compressive Strength, ASTM C579: 12,000 psi (82,740 kPa).
          4. Tensile Strength, ASTM C307: 2200 psi (15,170 kPa).
          5. Flexural Strength, ASTM C580: 3800 psi (26,200 kPa).
          6. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Body Coat: Quartz broadcast.
       3. Grout Coat: UV and chemical resistant. Coats as required to achieve approved texture.
       4. Thickness: 1/16 to 3/16 inch (1.6 to 4.8 mm).
    2. Basis of Design: Steri-Quartz T, Solvent Free, Light-Medium Traffic, Decorative Quartz Floor System; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Salts, dilute inorganic acids, alkaline solutions, oils.
          2. Low odor and low VOC.
          3. Compressive Strength, ASTM C579: Minimum 8000 psi (55,160 kPa).
          4. Tensile Strength, ASTM C307: Minimum 1500 psi (10,340 kPa).
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          6. Taber Abrasion, ASTM D4060: 0.0021 ounces (60 mg).
          7. Flame Spread, ASTM D635: Less than 0.2 inches (5 mm).
       2. Body Coat: Quartz broadcast.
       3. Grout Coat: UV and chemical resistant, fills porosity in body coat.
       4. Thickness: 3/16 to 1/6 inch (4.8 to 6.4 mm).
    3. Primer and Sealer:

\*\* NOTE TO SPECIFIER \*\* Delete primer options not required.

* + - 1. Primer: As indicated on Drawings.
      2. Primer: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Confirm if sealer is required. Delete sealer options not required.

* + - 1. Sealer: As indicated on Drawings.
      2. Sealer: \_\_\_\_\_.
    1. Colors:

\*\* NOTE TO SPECIFIER \*\* Confirm colors available for products selected. Delete color options not required.

* + - 1. Color: 101.
      2. Color: 102.
      3. Color: 103.
      4. Color: 104.
      5. Color: 105.
      6. Color: 106.
      7. Color: 107.
      8. Color: 108.
      9. Color: As indicated on Drawings.
      10. Color: To be selected by Architect.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. OTHER COATINGS

\*\* NOTE TO SPECIFIER \*\* Delete basis of design options not required.

* + 1. Basis of Design: Polymer Concrete 100, Epoxy Polymer Concrete, Dilute Acids Resistance; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compressive Strength, ASTM C579: 16,500 psi (113,800 kPa).
          2. Tensile Strength, ASTM C307: 5400 psi (37,230 kPa).
          3. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Description: Three-component epoxy polymer concrete used for construction of chemical resistant floors, pads, curbing, trenches, and sumps.
    2. Basis of Design: Polymer Concrete 100XT, Novolac Epoxy Strong Sulfuric Resistance; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compressive Strength, ASTM C579: 16,500 psi (113,800 kPa).
          2. Tensile Strength, ASTM C307: 5400 psi (37,230 kPa).
          3. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Description: Three-component, novolac epoxy polymer concrete used for construction of chemical resistant floors, pads, curbing, trenches, and sumps.
    3. Basis of Design: Polymer Concrete 800, Non-Shrink, Vinyl Ester Polymer Concrete; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compressive Strength, ASTM C579: 14,500 psi (99,970 kPa).
          2. Tensile Strength, ASTM C307: 1800 psi (12,410 kPa).
          3. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Description: Three-component, vinyl ester polymer concrete used for construction of chemical resistant floors, pads, curbing, trenches, and sumps.
    4. Basis of Design: Polymer Concrete 900, Non-Shrink, Novolac Vinyl Ester Polymer Concrete, Solvent and Organic Acid Resistance; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Compressive Strength, ASTM C579: 14,500 psi (99,970 kPa).
          2. Tensile Strength, ASTM C307: 1900 psi (13,100 kPa).
          3. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Description: Three-component, novolac vinyl ester polymer concrete used for construction of chemical resistant floors, pads, curbing, trenches, and sumps.
    5. Basis of Design: Polymer Steel EG, 100 Percent Solids, Aluminum Oxide-Filled, Fast Setting Epoxy Putty, Highbuild Capabilities; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Inorganic acids, alkali solutions, some solvents, salts, oils.
          2. Zero VOC.
          3. Compressive Strength, ASTM D695: 26,000 psi (179,260 kPa).
          4. Tensile Adhesion, ASTM D4541: Minimum 1800 psi (12,410 kPa).
          5. Taber Abrasion, ASTM D4060: 0.00078 ounces (22 mg).
       2. Description: 100 percent solids, aluminum oxide filled, polymer steel epoxy putty.
       3. Thickness: 1/16 to 1/2 inch (1.6 to 13 mm).
       4. Color: Dark Green.
    6. Basis of Design: Polymer Steel MG, 100 Percent Solids, Metal Filled, Machinable Epoxy Putty; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Inorganic acids, alkali solutions, some solvents, salts, oils.
          2. Zero VOC.
          3. Compressive Strength, ASTM D695: 15,500 psi (106,870 kPa).
          4. Tensile Adhesion, ASTM D4541: Minimum 1850 psi (12,760 kPa).
       2. Description: 100 percent solids, metal filled, polymer steel epoxy putty.
       3. Thickness: 1/16 to 1/2 inch (1.6 to 13 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: Light Gray.
      2. Color: Dark Gray.
    1. Basis of Design: Polymer Steel RG, 100 Percent Solids, Aluminum Oxide-Filled, Multi-Functional, Epoxy Putty, Highbuild Capabilities; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Inorganic acids, alkali solutions, some solvents, salts, oils.
          2. Zero VOC.
          3. Compressive Strength, ASTM D695: 22,700 psi (156,510 kPa).
          4. Tensile Adhesion, ASTM D4541: Minimum 1800 psi (12,410 kPa).
          5. Taber Abrasion, ASTM D4060: 0.00078 ounces (22 mg).
       2. Description: 100 percent solids, aluminum oxide filled, polymer steel epoxy putty.
       3. Thickness: 1/16 to 1/2 inch (1.6 to 13 mm).
       4. Color: Gray.
    2. Basis of Design: Polymer Steel SG, 100 Percent Solids, Aluminum Oxide-Filled, Multi-Functional, Epoxy Coating; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Inorganic acids, alkali solutions, some solvents, salts, oils.
          2. Zero VOC.
          3. Compressive Strength, ASTM D695: 20,500 psi (141,340 kPa).
          4. Tensile Adhesion, ASTM D4541: Minimum 1800 psi (12,410 kPa).
          5. Taber Abrasion, ASTM D4060: 0.00078 ounces (22 mg).
       2. Description: 100 percent solids, aluminum oxide filled, polymer steel epoxy coating. Can be used over Polymer Steel RG for a smoother finish.
       3. Thickness: 0.020 to 0.040 inch (0.51 to 1.0 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: Light Gray.
      2. Color: Black.
    1. Basis of Design: Polymer Carbide, 100 Percent Solids, High Abrasion Resistant, Ceramic Filled, Epoxy Putty; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Inorganic acids, alkali solutions, some solvents, salts, oils.
          2. Low VOC.
          3. Compressive Strength, ASTM D695: 15,500 psi (106,870 kPa).
          4. Tensile Adhesion, ASTM D4541: Minimum 1850 psi (12,760 kPa).
       2. Description: 100 percent solids, ceramic filled, polymer steel epoxy putty. Can be used over Polymer Steel RG for a smoother finish.
       3. Thickness: Approximately 1/4 inch (6.4 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color option not required.

* + - 1. Color: Light Gray.
      2. Color: Dark Gray.
    1. Basis of Design: Polymer Quartz, Concrete Repair Grout Material; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Acidic and caustic chemicals, inorganic substances, organic substances, salts, oils.
          2. Compressive Strength, ASTM C579: 11,000 psi (75,840 kPa).
          3. Tensile Strength, ASTM C307: 2400 psi (16,550 kPa).
          4. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
          5. Shear Strength to Steel: 2200 psi (15,170 kPa).
       2. Description: Epoxy based material with hardener and graded silica aggregate.
    2. Basis of Design: Steri-Flex; Flexibilized Trowel Applied, Glass Reinforced, Epoxy Lining; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Chemical Resistance: Dilute inorganic acids, mineral oils, ammonium hydroxide, sodium hydroxide, brine solutions.
          2. Compressive Strength, ASTM C579: 6000 psi (41,370 kPa).
          3. Tensile Strength, ASTM C307: Minimum 4500 psi (31,030 kPa).
          4. Tensile Elongation, ASTM C307: 12 to 15 percent.
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Base Coat: Trowel applied.
       3. Reinforcement: Fiberglass mat.
       4. Topcoat: Chemical resistant epoxy.
       5. Thickness: 0.090 inch (2.1 mm).

\*\* NOTE TO SPECIFIER \*\* Delete color options not required.

* + - 1. Color: To be selected by Architect.
      2. Color: As indicated on Drawings.
      3. Color: \_\_\_\_\_.
    1. Basis of Design: Vapor-Stop, Semi-Self Leveling, Seeded Moisture Vapor Reduction Coating for Vertical and Horizontal Applications, Low Odor; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Low odor and low VOC.
          2. Compressive Strength, ASTM C579: 6800 psi (46,880 kPa).
          3. Tensile Strength, ASTM C307: 1050 psi (7240 kPa).
          4. Flexural Strength, ASTM C580: 2600 psi (17,930 kPa).
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Description: Polyurethane moisture control system seeded with silica sand.
       3. Thickness: Minimum 0.060 inch (1.4 mm).

\*\* NOTE TO SPECIFIER \*\* Medium Grey color is standard. Delete color options not required.

* + - 1. Color: Medium Grey.
      2. Color: \_\_\_\_\_.
    1. Basis of Design: Vapor-Stop and Vapor-Stop Vertical, Semi-Self Leveling, Seeded Moisture Vapor Reduction Coating for Vertical and Horizontal Applications, Low Odor; as manufactured by Dudick Inc.
       1. Performance Requirements:
          1. Low odor and low VOC.
          2. Compressive Strength, ASTM C579: 6800 psi (46,880 kPa).
          3. Tensile Strength, ASTM C307: 1050 psi (7240 kPa).
          4. Flexural Strength, ASTM C580: 2600 psi (17,930 kPa).
          5. Tensile Bond Strength, ASTM D7234: Cohesive failure of concrete.
       2. Description: Polyurethane moisture control system seeded with silica sand.
       3. Thickness: Minimum 0.060 inch (1.4 mm) on Horizontal surfaces.
       4. Thickness: Minimum 0.030 inch (0.7 mm) on Vertical surfaces.

\*\* NOTE TO SPECIFIER \*\* Medium Grey color is standard. Delete color options not required.

* + - 1. Color: Medium Grey.
      2. Color: \_\_\_\_\_.

\*\* NOTE TO SPECIFIER \*\* Delete Article if not required.

* 1. ACCESSORIES AND COMPONENTS

\*\* NOTE TO SPECIFIER \*\* Delete products not required.

* + 1. Grouts:
       1. C-Grout: Fast-setting, cementitious repair grout, 1/2 inch (13 mm) minimum thickness.
       2. Grout 100: Epoxy based pourable and dry pack grout.
       3. Grout 800: Vinyl ester pourable and dry pack grout.
       4. Grout 900: Novolac vinyl ester pourable and dry pack grout.
       5. Grout RE: Epoxy patching liquid, 100 percent solids, for concrete repairs.
    2. Block Filler: Trowel, squeegee or roller applied epoxy material for concrete.
    3. Sealants:
       1. Caulk 100XT: Two-component, fluoroelastomer joint sealant.
       2. Caulk 149: 100 percent solids, two-component polysulfide expansion and control joint sealant.
       3. Caulk PSC: Elastomeric polysulfide caulk.
    4. Fillers:
       1. G-1 Filler: Protecto-Line filler.
       2. G-2 Filler: Scratch-Coat 800 filler.
    5. Gel-Coat Series:
       1. Gel-Coat 800: Provides smooth surface and added protection for chemical contamination over Protecto-Flake 800.
       2. Gel-Coat 900: Provides smooth surface and added protection for chemical contamination over Protecto-Flake 900.
    6. Membranes:
       1. Membrane 310: Flexibilized, moisture proof epoxy membrane, 0.020 to 0.030 inch (0.51 to 0.76 mm) thickness.
       2. Membrane 510 and Membrane 510R: Low-VOC flexibilized, urethane membrane, 0.020 to 0.125 inch (0.51 to 3.2 mm) thickness.
    7. PH-1 Hardener: Polyester and vinyl ester hardener.
    8. Primers:
       1. Primer 27: Vinyl ester primer for steel and concrete, 0.003 to 0.004 inches (0.08 to 0.10 mm) thick.
       2. Primer 27C: Conductive vinyl ester primer for concrete, 0.003 to 0.004 inches (0.08 to 0.10 mm) thick.
       3. Primer 47: 100 percent reactive, acrylic primer for concrete, 0.005 to 0.007 inches (0.13 to 0.18 mm) thick.
       4. Primer 65 Modified: 100 percent solids, moisture tolerant epoxy primer for concrete 3 to 4 mils (0.08 to 0.1 mm) thick. To wet out the concrete surface which is required for good adhesion. VOC compliant. Low odor.
       5. Primer 67: High solids, moisture tolerant epoxy primer for steel and concrete, 0.003 to 0.004 inches (0.08 to 0.10 mm) thick.
       6. Primer 67 DP: Deep penetrating, moisture tolerant epoxy primer for dense high compressive strength concrete, 0.002 to 0.003 inches (0.05 to 0.08 mm) thick.
       7. Primer 67DP LV: Low VOC, Deep penetrating, moisture tolerant epoxy primer for dense high compressive strength concrete, 0.003 to 0.004 inches (0.08 to 0.10 mm) thick.
       8. Primer 67 DTO: 100 percent solids, moisture tolerant epoxy primer for concrete contaminated with vegetable and petroleum oils, 0.004 to 0.006 inches (0.10 to 0.15 mm) thick.
       9. Primer 67 C: High solids, moisture tolerant epoxy primer for steel and concrete, 0.003 to 0.004 inches (0.08 to 0.10 mm) thick.
       10. Primer 67 LV: Low VOC, high solids, moisture tolerant, epoxy primer for steel and concrete, 0.003 to 0.004 inches (0.08 to 0.10 mm) thick.
       11. Primer 70: High solids, two component, polyaspartic primer, 0.005 to 0.007 inches (0.13 to 0.18 mm) thick.
       12. Primer 200WB: Two component, water borne, alipathic urethane primer, 0.004 to 0.005 inches (0.10 to 0.13 mm) thick.
    9. S-10 Solvent: Cleaning solvent for tools and equipment.
    10. Scratch-Coat Series:
        1. Scratch-Coat 300: Trowel or squeegee applied, epoxy material for concrete.
        2. Scratch-Coat 800: Trowel or squeegee applied, vinyl ester material for concrete.
        3. Scratch-Coat Block Filler 300: An epoxy-based material for filling surface defects and bugholes in concrete substrates.
    11. Steri-Cove Gel: An epoxy system designed for installation as integral cove base, 1/16 to 1/4 inch (1.6 to 6.4 mm) thick.
    12. Styrene: Smoothing liquid for Protecto-Flake 800 and Protecto-Flake 900.

1. EXECUTION
   1. EXAMINATION
      1. Do not begin installation until substrates have been properly constructed and prepared.
      2. If substrate preparation is the responsibility of another installer, notify Architect in writing of unsatisfactory preparation before proceeding.
   2. PREPARATION
      1. Clean surfaces thoroughly prior to installation.
      2. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
   3. INSTALLATION
      1. Install in accordance with manufacturer's instructions approved submittals and in proper relationship with adjacent construction.
   4. FIELD QUALITY CONTROL
      1. Field Inspection: Coordinate field inspection in accordance with appropriate sections in Division 01.

\*\* NOTE TO SPECIFIER \*\* Include if manufacturer provides field quality control with onsite personnel for instruction or supervision of product installation, application, erection or construction. Delete if not required.

* + 1. Manufacturer's Services: Coordinate manufacturer's services in accordance with appropriate sections in Division 01.
  1. CLEANING AND PROTECTION
     1. Clean products in accordance with the manufacturer's recommendations.
     2. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION