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| NOTE TO PROJECT ARCHITECT: Use this section for both pedestrian and vehicular bearing decks. |

**PART 1 - GENERAL**

**1.01 SUMMARY**

A. Provisions of Division 01 apply to this section.

B. Section Includes:

1. Elastomeric polyurethane waterproof deck coating for pedestrian and vehicular traffic, as indicated on the drawings.

C. Related Sections:

1. Section 03 30 00: Cast-In-Place Concrete.

2. Section 06 10 00: Rough Carpentry.

**1.02 SYSTEM DESCRIPTION**

A. Design Requirements: Liquid materials shall be non-combustible and shall not emit solvents, or other recognized pollutants, into the atmosphere.

B. Regulatory Requirements: The deck coating system shall be certified by Underwriter's Laboratories (UL) approved Class A designation for fireproof construction.

**1.03 SUBMITTALS**

A. Shop Drawings: Submit details of installation and terminations.

B. Product Data:

1. Submit manufacturer's product literature.

2. Submit laboratory test reports indicating conformance with this section.

C. Material Samples: Submit Samples for each color selected of elastomeric deck coating, approximately 2 inches x 3 inches in size, installed to a suitable backing material.

D. Certificates: Submit a certificate stating applicator is approved by the manufacturer, and upon completion, submit a certificate stating that elastomeric deck coating has been installed in conformance with reviewed submittals and manufacturer's recommendations.

E. Installation Instructions: Submit manufacturer's installation procedures.

F. Closeout Submittals: Submit manufacturer's printed maintenance and repair instructions.

**1.04 QUALITY ASSURANCE**

A. Qualifications:

1. Elastomeric deck coating shall be product of a manufacturer who has been regularly engaged in the manufacture of this product for at least 10 years. Manufacturer shall supply references of at least 5 satisfactory installations in which deck coating has been in service for at least 5 years.

2. Qualifications of Installer: Installer shall have at least 5 years experience in work of the type required by this section, and is approved by manufacturer to install the specified products.

B. Binders and other liquid and dry components shall be completely mixed and packaged at factory.

C. Pre-Installation Conference and Inspection: After review of submittals but before starting installation of the Work of this section, conduct a meeting at the Project site attended by the PI, Architect, OAR, Contractor and FUSD, waterproofing applicator, and a technical representative of the elastomeric waterproofing material manufacturer. The waterproofing applicator and material manufacturer's technical representative shall inspect the substrates to receive Work of this section and report defective conditions to PI, Architect, OAR and Contractor.

D. Manufacturer's Representative: Provide arrangements necessary to have a trained representative of the manufacturer visit the Project site on a weekly basis during elastomeric waterproofing Work to review installation procedures.

E. Materials shall comply with current State of California and local Air Quality Management District requirements for volatile organic compounds.

**1.05 DELIVERY, STORAGE AND HANDLING**

A. Deliver materials to the Project site in manufacturers unopened containers bearing manufacturer's labels.

**1.06 PROJECT CONDITIONS**

A. Weather Conditions: Do not apply work of this Section if temperature of surfaces to receive coating or ambient temperature are below 40 degrees F or above 90 degrees F. Do not install materials when water or dampness in any form is present on the substrate, if materials are wet, or if rain is imminent.

B. Install suitable impervious type masking to preclude staining of surfaces to remain exposed wherever elastomeric waterproofing abuts or laps on to other finish surfaces, and provide additional protection as necessary to supplement masking; cover entire area of building subject to damage or staining.

C. Protect adjacent Work during installation of Work of this Section.

**1.07 WARRANTY**

1. Manufacturer shall provide a 5 year material warranty.
2. Installer shall provide a 5 year labor warranty.

**PART 2 - PRODUCT**

**2.01 SYSTEMS**

A. Elastomeric polyurethane waterproofing system, heavy-duty vehicle traffic deck:

1. Polycoat Products, Poly-I-Gard 246SF.

2. Gaco Western, GW-15-U62.

**2.02 MATERIALS**

A. Coating: Liquid applied, moisture-cured, polyurethane deck covering system consisting of the following:

1. Primer: Two component epoxy primer. Minimum dry film thickness of 3 mils.

2. Base Coat: One-part self-leveling, polyurethane. Minimum dry film thickness of 16 mils.

3. Intermediate Coat: One-part self-leveling, polyurethane 16 mils thick minimum.

4. Top Coat: One-part moisture-cured polyurethane coating of 14 mils thick minimum.

5. Total Minimum Thickness: 49 mils.

6. Ramps and Turn Radius: In addition to coatings indicated above, vehicular ramps and parking turn radii shall receive an additional base coat with a minimum dry film thickness of 14 mils.

B. Aggregate: Crushed walnut shells, 90 Rockwell scale. Size, 12/20 for vehicular applications and 18/40 for pedestrian.

C. Sealant: One-part self-leveling or gun grade, non-staining, polyurethane sealant.

D. Sheet Flashing: Flexible flashing as recommended by coating manufacturer.

E. Backing Rod: Closed-cell polyethylene foam rod.

F. Provide any additional materials and accessories required to provide a complete system as indicated on the Drawings and as recommended by the manufacturer.

**PART 3 - EXECUTION**

**3.01 EXAMINATION**

A. Verify that all other work done in this area under other sections has been completed and accepted by the Architect and the Contractor and meet the manufacturer’s requirements prior to starting the coating application.

B. Do not begin work until concrete substrate has cured 28 days, minimum.

C. Verify that substrate is free of ridges, sharp projections and damages.

**3.02 PREPARATION**

A. Surface shall be prepared in accordance with manufacturer recommendation. Clean and sweep free of loose particles and debris, which might prevent proper installation of the surfacing materials, and remove oil and grease.

B. Concrete Substrate:

1. Prepare concrete surface by sandblasting, shot blasting or acid etching with a 10% to 15% solution of muriatic acid. Flush acid with clean water and allow substrate to dry.

2. Grind smooth fins and projections. Fill depressions with concrete patching compounds recommended by manufacturer.

3. Visible hairline cracks and cold joints shall be cleaned and primed. Saw-cut cracks exceeding 1/16 inch in width and apply sealant. Apply sealant to expansion, control and construction joints. Apply liquid flashing a distance of inches on each side of cracks and joints.

C. Plywood Substrate: Seal plywood joints and cracks flush. Immediately prior to application of coating, clean surface to remove all residual dust.

D. Mask-off all adjoining areas that are not to receive elastomeric deck coating.

**3.03 INSTALLATION**

A. Apply primer to concrete surfaces in accordance to manufacturer’s recommendations.

B. Install base, intermediate and top coats per manufacturer’s instructions and at the required gallons per square feet rates to obtain the dry thickness mils specified in article 2.02.

**3.04 CLEANUP**

A. Clean stains from adjacent surfaces. Remove foreign matters from finished coating surfaces.

B. Remove rubbish, debris, and waste materials and legally dispose of off the Project site.

**3.05 FIELD QUALITY CONTROL**

A. After coating has cured, flood test horizontal area by adding water to a depth of 2 to 3 inches. Retain water at specified depth for a period of 24 hours. If leakage occurs, repair coating and repeat testing.

**3.06 PROTECTION**

A. Protect the Work of this section until Substantial Completion.

**END OF SECTION**