



# ALUMINUM LOADING RAMPS SPECIFICATION

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## Part 1 – GENERAL

### 1.01 Summary

- A. Project Identification: Aluminum Loading Ramps
- B. Project Summary: Provide a slip resistant surface to delivery truck ramps.

### 1.02 Description of Work

This guide specifies the application of LINE-X coatings systems to delivery truck ramps. The coating shall be a fast setting (6-45 seconds) Polyurethane/Polyurea elastomeric coating system formulated to be used for applications requiring a seamless, flexible, waterproof, abrasion and impact resistant surface.

### 1.03 References and Standards

- A. Society of Protective Coatings (SSPC)
  - 1) SSPC-SP 1 - Solvent Cleaning; Society for Protective Coatings; 1982.
  - 2) SSPC-SP 2 - Hand Tool Cleaning
  - 3) SSPC-SP 3 - Power Tool Cleaning
  - 4) SSPC-SP 6 – Commercial Blast Cleaning
  - 5) SSPC-SP 7 – Brush-off Blast Cleaning
  - 6) SSPC-SP 11 - Power Tool Cleaning to Bare Metal
  - 7) SSPC-SP 15 - Commercial Grade Power Tool Cleaning

### 1.04 Quality Assurance

- A. Single Source Responsibility: Primer and topcoat materials shall be produced by the same manufacturer (LINE-X), or recommended by manufacturer, for each type of coating specified to ensure compatibility and proper chemical and mechanical bond.
- B. Applicator: A company specializing in applying Polyurethane/Polyurea coatings with documented experience.
- C. Equipment Requirements: Equipment must be a plural component impingement mixing unit capable of spraying at 2000 psi, at 160 degrees Fahrenheit.

### 1.05 Handling and Storage

- A. Handle product in accordance with manufacturer's recommendations using appropriate personal protective equipment.
- B. Store materials not in use in tightly covered containers in a dry, well-ventilated area at an ambient temperature between 50 to 90 degrees Fahrenheit, away from sunlight, heat, or other hazards.



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## 1.06 Project Conditions

- A. Protect adjacent surfaces from damage resulting from work. If necessary, mask and or cover adjacent surfaces, fixtures, equipment, etc.
- B. Maintain environmental conditions (temperature, humidity, and ventilation) and apply materials in accordance with manufacturers Technical Data Sheets for optimum results. Do not apply coatings under environmental conditions outside manufacturer's absolute limits.
- C. Do not apply coating system over oil soaked or chemically contaminated substrates.

## 1.07 Warranty

- A. LINE-X Protective Coatings warrants its products to be free of manufacturing defects and that they will meet LINE-X Protective Coatings current published physical properties when applied properly by a licensed LINE-X Protective Coatings applicator. LINE-X Protective Coatings sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties written or expressed by LINE-X Protective Coatings of any nature whatsoever, including any warranty of merchantability or fitness for a particular purpose in connection with this product. LINE-X Protective Coatings shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. LINE-X Protective Coatings shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear, or lack of proper maintenance. Acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. LINE-X Protective Coatings reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

## Part 2- PRODUCTS

### 2.01 System Performance Requirements

- A. Material Compatibility: Provide coating, repair materials, primers, bug hole fillers, topcoat, and related materials that are compatible with one another and the substrates indicated under conditions of service required as recommended by the manufacturer.
- B. Coating must meet or exceed all of the physical properties, test results, and certifications per product Technical Data Sheets.
- C. Substitutions: Not permitted unless authorized by the manufacturer



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## 2.02 Acceptable Manufacturers

- A. LINE-X Protective Coatings  
1862 Sparkman Dr.  
Huntsville, AL 35816  
Phone: 877-330-1331  
Website: www.LINE-X.com

## 2.03 Materials

- A. Polyurethane/Polyurea coating: LINE-X XS-100. Color specified by the customer.
- B. Aluminum Oxide
- C. Primer: For Aluminum, Steel, Stainless Steel or Galvanized Metal.
  - 1. LINE-X XPM
  - 2. LINE-X FCP

## Part 3 – EXECUTION

### 3.01 Site Inspection and Testing

- A. If substrate preparation is the responsibility of another installer, notify Architect or General Contractor if preparation is unsatisfactory before proceeding.
- B. Ensure that environmental and site conditions are suitable for application and curing. Temperature of the surface to be coated must be at least 5 degrees above dew point temperature of the air. Check dew point in accordance with ASTM E-337 or by using approved digital instrument.
- C. Surfaces to receive coatings must be structurally sound, thoroughly dry before coatings are applied. Report in writing to Architect / Engineer, with copy to manufacturer, of deficiencies that could impair work. Do not proceed with coating application until unsatisfactory conditions have been corrected.
- D. LINE-X Polyurethane/Polyurea coatings will follow the contours of the substrate. Notification that the substrate is ready to be coated indicates the Owner's acceptance of the substrates levelness and appearance, etc.

### 3.02 Surface Preparation

- A. Clean and degrease as necessary (SSPC SP-1).
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions (Refer to Section 1.03 References and Standards).
- C. Ensure all surfaces are dry.



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## 3.03 Priming

- A. Prime metal surfaces with 1-3 mils dry film thickness of XPM or FCP primer.
- B. Once primer is applied, Polyurethane/Polyurea coating must be applied within the window as specified by the manufacturer. Failure to meet this window requires a light sanding and dust removal.

## 3.04 Installation

- A. Apply the Polyurethane/Polyurea coating system in a single application in accordance with manufacture's recommendations to an approximate total average thickness of 115 mils or greater. Average thickness shall be determined using the calculated average thickness from five sites per square foot.
- B. Apply the Aluminum Oxide grit onto the surface.
- C. Apply a second coat of the Polyurethane/Polyurea coating system in a single application in accordance with manufacture's recommendations to an approximate total average thickness of 10 mils or greater. Total Polyurethane/Polyurea coating is now approximately 125 mils.
- D. Repairs or re-coating after recoat window:
  - 1. Abrade surface to be repaired and 6" beyond the repair area to roughen and dull surface.
  - 2. Scrub with MEK and allow to dry.
  - 3. Reapply primer system.
  - 4. Reapply topcoat system within the primer window.

## 3.05 Cleaning

- A. Unmask and dispose of masking materials. Remove any overspray from surrounding substrates as needed, being careful not to scratch or damage surfaces.