

**Guide Specification****PART 1 GENERAL****1.1 SUMMARY**

- A. Provide labor, materials, equipment and supervision necessary to install a seamless, fully adhered fluid-applied roofing system over new or existing metal roofing as outlined in this specification.
- B. The Manufacturer's Application Instructions for each product used are considered part of this specification and should be followed at all times.
- C. Related Sections:
  - 1. Cast-in-Place Concrete: Section 03 30 \_\_.
  - 2. Metal Decking: Section 05 30 \_\_.
  - 3. Thermal Protection: Section 07 20 \_\_.
  - 4. Flashing & Sheet Metal: Section 07 60 \_\_.
  - 5. Roof Accessories: Section 07 72 \_\_.
  - 6. Joint Sealants: Section 07 92 \_\_.

**1.2 SYSTEM DESCRIPTION**

- A. ELASTA-GARD™ M shall be a complete system of compatible materials to create a seamless waterproof membrane.
- B. ELASTA-GARD™ M shall be designated for application on the specific type of deck indicated on the drawings.

**1.3 SUBMITTALS**

- A. Product Data: Submit NEOGARD® product literature and installation instructions.
- B. Project Reference List: Submit list of projects as required by this specification.
- C. Samples: Submit samples of specified fluid-applied roof system. Samples shall be construed as examples of finished color and texture only.
- D. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the ELASTA-GARD™ M system.
- E. Warranty: Submit copy of manufacturer's standard warranty.

**1.4 QUALITY ASSURANCE**

- A. Supplier Qualifications: ELASTA-GARD™ M, as supplied by NEOGARD®, is approved for use on this project.
- B. Applicator Qualifications: Applicators shall be approved to install specified system.
- C. Requirements of Regulatory Agencies: Materials used in the fluid-applied roofing system shall meet Federal, State and local VOC regulations.
- D. Field Quality Control: Upon completion of the ELASTA-GARD™ M installation, an inspection by NEOGARD® or its designated third party inspection company may be required. Consult NEOGARD® for details.

**1.5 DELIVERY, STORAGE AND HANDLING**

- A. Delivery: Materials shall be delivered in original sealed containers, clearly marked with supplier's name, brand name and type of material.
- B. Storage and Handling: Recommended material storage temperature is 75°F (23.8°C). Handle products to avoid damage to containers. Do not store for long periods in direct sunlight.

**1.6 JOB CONDITIONS**

- A. Environmental Conditions:
  - 1. Do not proceed with application of coating materials when surface temperature is less than 40°F (4.4°C) or if precipitation is imminent.
  - 2. Do not apply material unless surface to receive coating is clean and dry.
  - 3. The existing metal roofing system shall be properly fastened to the surface on which it is applied.
  - 4. Applicator shall examine existing conditions affecting this work and shall report all unsatisfactory conditions to the proper authority. Work will not proceed until these conditions have been corrected.

**1.7 WARRANTY**

- A. Upon request, NEOGARD® shall offer the manufacturer's standard warranty upon receipt of a properly executed warranty request form.

## PART 2 PRODUCTS

### 2.1 MANUFACTURER

- A. NEOGARD® Division of JONES-BLAIR™ Company, P.O. Box 35286, Dallas, TX 75235, Toll Free (800) 321-6588, Fax (214) 357-7532, www.neogard.com.

### 2.2 MATERIALS

- A. Fluid-Applied Roofing Materials:
1. Primer (previously coated or factory-finished metal roof): 33010/99951 (white), 33514/99951 (gray) or 33114/99951 (coral) UREPRIME® HS2 primer.
  2. Primer (zinc or zinc-aluminum surfaced metal roof): 188/942 Mist Coat II primer.
  3. Elastomeric Coating: 70611 series polyurethane coating material. Standard colors are gray, tan and white.
  4. Flashing Tape: 86218 flashing tape (WebSeal™) or approved equal having a minimum thickness of 30 mils.
  5. Sealant: 70991 or other polyurethane sealant approved by NEOGARD®.
- B. Physical properties of cured fluid-applied roof coating used on this project are:

| PERFORMANCE REQUIREMENTS OF CURED FILM |                     |                     |
|--|---------------------|---------------------|
| PHYSICAL PROPERTIES                    | TEST METHOD         | RESULTS             |
| Tensile Strength                       | ASTM D412           | 1,500 psi           |
| Elongation                             | ASTM D412           | 360%                |
| Permanent Set                          | ASTM D412           | <10%                |
| Tear Resistance                        | ASTM D1004          | 100 lb/in           |
| Water Resistance                       | ASTM D471           | <3% @ 7 days        |
| MVT @ 30 mils                          | ASTM E96            | 2.2 English         |
| Shore A                                | ASTM D2240          | 70 - 75             |
| Adhesion                               | ASTM D903           | 15 pli              |
| Weathering Resistance                  | ASTM D822           | Slight Chalk        |
| Thermal Shock                          | Alternate Heat/Cold | No Loss of Adhesion |

### 2.3 ACCESSORIES

- A. Fabric reinforcement and waterproofing coverings for expansion joints shall be compatible with specified fluid-applied roofing system.
- B. Miscellaneous materials such as adhesives, metal primers, metal vents and drains shall be a composite part of the roof system and shall be compatible with the fluid-applied roofing system.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Inspect existing metal roof surface to receive the coatings. Metal panels which no longer have integrity due

to excessive rust and deterioration, should be replaced. All other areas of rust must be prepared and primed as required. Metal panels with seam gaps of 1/8" or more should be stitched as tight as possible with additional stitch screw fasteners.

- B. Light gauge metal panels that flex open at the horizontal lap seam when walked on, will require additional fastening and/or flashing tape in the pan of the panel to reduce deflection.
- C. Examine existing system for loose fasteners and gapped seams. Pay particular attention to the horizontal seams. Ensure the horizontal seams are tight before detailing.

### 3.2 PREPARATION

- A. Protection:
1. Keep products away from heat, sparks and flames. Do not allow the use of spark producing equipment during application and until vapors are gone. Post "No Smoking" signs.
  2. The overspray and/or solvents from spraying fluid-applied roofing materials can carry considerable distances and care should be taken to do the following:
    - a. Post warning signs a minimum of 100 feet from the work area.
    - b. Close air intakes into building and/or air conditioner intakes.
    - c. Set up windbreaks when needed.
    - d. Minimize or exclude all personnel not directly involved with the coating application.
    - e. Have CO<sub>2</sub> or other dry chemical fire extinguishers available at the jobsite.
    - f. Provide adequate ventilation.
  3. Protect plants, vegetation and animals which might be affected by the coatings. Use drop cloths or masking as required.
- B. Surface Preparation:
1. This section of the specification does not extensively outline procedures for preparation and finishing of drains, vents, ducts, flashings, parapet walls, sheet metal work, etc. The applicator should outline this work before work commences, and shall be performed observing good trade practices.
  2. Tighten all loose fasteners and replace stripped fasteners with oversized version of the same fastener, i.e. aluminum, galvanized, or stainless must remain as designed by the manufacturer.
  3. Metal surfaces having loose scale or rust, must be cleaned and primed with metal primer prior to elastomeric coating application as job conditions dictate. Consult NEOGARD® for recommendations.

4. Remove dirt and foreign material detrimental to adhesion or application of roofing. Use Tri-Sodium Phosphate diluted 20:1 with water. On heavy dirt or grease, apply full strength. Broom-scrub the cleaning solution on the existing substrate to loosen oxidation and dirt and pressure wash with a minimum 1,500 psi water blaster. **If algae is growing on the surface, cleaning must include bleach in the washing of the substrate.** It is very important to remove all soap and/or bleach residue used to clean roof. Rinse well and allow to dry.
5. Detail horizontal metal seams with flashing tape.
6. For vertical metal seams, use gun-grade sealant when there is a tight and ordinary joint that will be efficiently filled with the gun. Apply urethane sealant into vertical joints and smooth out lumps or imperfections in the application while still wet and allow to thoroughly cure.
7. Apply urethane sealant around fasteners and strike or tool into place to achieve a smooth transition and allow to thoroughly cure.
8. Round projections, machine legs, sign posts, guide wire straps, inside and outside corners, etc. can be flashed using sealant.
9. Clean and seal watertight all drains, gutters, parapet walls and caps. Repair any damaged metal. Caulk and seal watertight all screws, seams, skylights, joints, pipes, voids, protrusions and any areas where water could enter through the roof.
10. Allow roof and other prepared surfaces to dry completely before proceeding with elastomeric coating application.

### 3.3 APPLICATION

- A. Elastomeric Coating Application:

#### 5 Year Warranty Requirements

1. Primer: For previously coated or factory finished-metal roofs, apply 33010/99951 (white), 33514/99951 (gray) or 33114/99951 (coral) UREPRIME® HS2 primer at a rate of 300-400 square feet per gallon. For zinc or zinc-aluminum coated metal roofs, apply Mist Coat II primer at a rate of 300-400 square feet per gallon.
2. Apply elastomeric coating at a minimum rate of 1 gallon per 100 square feet (100 sf/gal) to prepared roof surfaces to yield an average thickness of 12

dry mils. Total system coating thickness averages 12 dry mils.

\*Note to specification writer: Thickness values of cured film are averages and can vary due to finish of surface. High sloped roofs may require additional coats to achieve specified dry film thickness.

#### 10 Year Warranty Requirements

1. Primer: For previously coated or factory finished-metal roofs, apply 33010/99951 (white), 33514/99951 (gray) or 33114/99951 (coral) UREPRIME® HS2 primer at a rate of 300-400 square feet per gallon. For zinc or zinc-aluminum coated metal roofs, apply Mist Coat II primer at a rate of 300-400 square feet per gallon.
2. Apply elastomeric coating at a minimum rate of 1.25 gallons per 100 square feet (80 sf/gal) to prepared roof surfaces to yield an average thickness of 15 dry mils. Total system coating thickness averages 15 dry mils.

\*Note to specification writer: Thickness values of cured film are averages and can vary due to finish of surface. High sloped roofs may require additional coats to achieve specified dry film thickness.

### 3.4 CLEANING

- A. Remove debris, resulting from completion of fluid-applied roofing operation, from the project site.

### 3.5 PROTECTION

- A. After completion of application, do not allow traffic on coated surfaces for a period of at least 48 hours at 75°F and 50% R.H., or until completely cured.

END OF SECTION

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