

**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 single-ply 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. Wood Decking: Section 06 15 \_\_\_.
  4. Thermal Protection: Section 07 20 \_\_\_.
  5. Membrane Roofing: Section 07 50 \_\_\_.
  6. Flashing & Sheet Metal: Section 07 60 \_\_\_.
  7. Roof Accessories: Section 07 72 \_\_\_.
  8. Joint Sealants: Section 07 92 \_\_\_.

**1.2 SYSTEM DESCRIPTION**

- A. ELASTA-GARD™ SP shall be a complete system of compatible materials to create a seamless waterproof membrane.
- B. ELASTA-GARD™ SP 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™ SP system.

- E. Warranty: Submit copy of manufacturer's standard warranty.

**1.4 QUALITY ASSURANCE**

- A. Supplier Qualifications: ELASTA-GARD™ SP, 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:
  1. The fluid-applied roofing system shall be rated Class "A" (Spread of Flame) per ASTM E108.
  2. 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™ SP 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.

**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. Water Based Epoxy Primer: 7780/7781, red tint in color when mixed.
  2. Elastomeric Base Coat: 7419 polyurethane coating, black in color.
  3. Elastomeric Top Coat: 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 roofing materials used on this project are:

PERFORMANCE REQUIREMENTS OF CURED FILM			
PHYSICAL PROPERTIES	TEST METHOD	BASE COAT	TOPCOAT
Tensile Strength	ASTM D412	350 psi	1,500 psi
Elongation	ASTM D412	500%	360%
Permanent Set	ASTM D412	<25%	<10%
Tear Resistance	ASTM D1004	100 lb/in	100 lb/in
Water Resistance	ASTM D471	<3% @ 7 days	<3% @ 7 days
MVT @ 30 mils	ASTM E96	1.6 English	2.2 English
Taber Abrasion	ASTM D4060	N/A	45 mg/1,000cs-17
Shore A	ASTM D2240	50 - 55	70 - 75
Adhesion	ASTM D903	5 pli	15 pli
Weathering Resistance	ASTM D822	N/A	Slight Chalk
Thermal Shock	Alternate Heat/Cold	No Loss of Adhesion	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.
- C. Granules (Optional): Consult NEOGARD® for recommendations.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Inspect roof surfaces to insure they are clean, smooth, sound, properly prepared and free of moisture, dirt and debris or other contamination.
- B. Verify structural decking is securely supported and attached.
- C. Verify all roof penetrations, mechanical equipment, cants, gravel stops and all other on-roof items are in place and secure.
- D. Verify the membrane is either fully adhered or the mechanical fasteners are in-place and functional.
- E. Verify the membrane is essentially intact and has not failed to the point necessitating a complete tear-off.
- F. Verify all critical areas in the vicinity of the application area are suitably protected.

### 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. To block bleed-through of existing roofing system, the use of a water based epoxy primer may be required. Consult NEOGARD® for recommendations.
  2. Remove all unnecessary and non-functional equipment and debris from the roof.
  3. Remove dirt, and foreign material detrimental to adhesion or application of fluid-applied roofing by thoroughly cleaning all roof surfaces with a

high-pressure (2,500 - 3,000 psi) wash. Surfaces contaminated with oil, grease, animal fats, etc. must be removed using tri-sodium phosphate and water, or other solutions as required by job conditions. Remove all cleaning solutions with plenty of fresh water. **Note: If algae is present on the surface, the cleaning must include bleach in the washing of the substrate.**

4. Membranes with seam and flashing failure shall be detailed with flashing tape. Detail repaired areas with elastomeric base coat at the rate of 1 gallon per 100 square feet (100 sf/gal) minimum. Elastomeric base coat shall extend a minimum of 2 inches beyond the edges of the repair.
5. Round projections, machine legs, sign posts, guide wire straps, inside and outside corners, etc. can be flashed using sealant.
6. Seal watertight 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.
7. Clean and seal all drains watertight.
8. Allow roof and other prepared surfaces to dry completely before proceeding with priming and/or coating application.

### 3.3 APPLICATION

- A. Elastomeric Coating Application:

#### 5 Year Warranty Requirements

1. If required, apply water based epoxy primer at a rate of 1/3 gallon per 100 square feet (300 sf/gal) to existing roofing system.
2. Apply elastomeric base coat at a minimum rate of 1 gallon per 100 square feet (100 sf/gal) to roof surfaces that will receive the fluid-applied roofing system to yield an average thickness of 13 dry mils.
3. When dry, apply elastomeric topcoat at a minimum rate of 1 gallon per 100 square feet (100 sf/gal) to yield an average thickness of 12 dry mils. Total system coating thickness averages 25 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. If required, apply water based epoxy primer at a rate of 1/3 gallon per 100 square feet (300 sf/gal) to existing roofing system.
2. Apply elastomeric base coat at a minimum rate of 1 gallon per 100 square feet (100 sf/gal) to roof surfaces that will receive the fluid-applied roofing system to yield an average thickness of 13 dry mils.
3. When dry, apply second coat of elastomeric base coat at a minimum rate of 1 gallon per 100 square feet (100 sf/gal) to yield an average thickness of 13 dry mils.
4. When dry, apply elastomeric topcoat at a minimum rate of 1 gallon per 100 square feet (100 sf/gal) to yield an average thickness of 12 dry mils. Total system coating thickness averages 38 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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**NEOGARD®**  
Div. of JONES-BLAIR®

2728 Empire Central - P.O. Box 35286 - Dallas, Texas 75235 - Toll Free (800) 321-6588 - Fax (214) 357-7532 - www.neogard.com