Guide Specification

PART 1 GENERAL

1.1 SUMMARY

A. Provide labor, materials, equipment and supervision necessary to install a fluid-applied roofing system as outlined in this specification to new or existing concrete surfaces.

B. The Manufacturer's Application Instruction 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. Flashing and Sheet Metal: Section 07 60 __.
3. Roof Accessories: Section 07 72 __.
4. Joint Sealants: Section 07 92 __.

1.2 SYSTEM DESCRIPTION

A. Elasta-Gard C shall be a complete system of compatible materials supplied by NEOGARD® to create a seamless waterproof membrane.

B. Elasta-Gard C 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 roofing system. Samples shall be construed as examples of finished color and texture of the system only.

D. Applicator Approval: Submit letter from manufacturer stating applicator is approved to install the Elasta-Gard C system.

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

1.4 QUALITY ASSURANCE

A. Supplier Qualifications: Elasta-Gard C, 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 fluid-applied roofing 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 container. 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 elastomeric 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, 2728 Empire Central, Dallas, TX 75235, Toll Free (800) 321-6588, Fax (214) 357-7532, www.neogard.com.

2.2 MATERIALS (Choose System A or B)

SYSTEM A

A. Fluid-Applied Roofing Materials:
1. Elastomeric Base Coat: 70620 polyurethane coating, dark gray in color.

2. Elastomeric Topcoat: 70611 series polyurethane coating material. Standard colors are gray, tan and white.
3. Flashing Tape: 86218 flashing tape or approved equal having a minimum thickness of 30 mils.
4. Sealant: 70991 or other polyurethane sealant approved by NEOGARD®.

B. Physical properties of cured fluid-applied coating system used on this project are:

PERFORMANCE REQUIREMENTS OF CURED FILM			
PHYSICAL PROPERTIES	TEST METHOD	BASE COAT	TOPCOAT
Tensile Strength	ASTM D412	1,000 psi	1,500 psi
Elongation	ASTM D412	375%	360%
Permanent Set	ASTM D412	<10%	<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	15 pli	15 pli
Weathering Resistance	ASTM D822	N/A	Slight Chalk
Thermal Shock	Alternate Heat/Cold	No Loss of Adhesion	No Loss of Adhesion

SYSTEM B

A. Fluid-Applied Roofing Materials:
1. Elastomeric Base Coat: 7419 polyurethane coating, black in color.
2. Elastomeric Topcoat: 7440 series polyurethane coating material. Standard colors are gray, tan and white.
3. Flashing Tape: 86218 flashing tape or approved equal having a minimum thickness of 30 mils.
4. Sealant: 70991 or other polyurethane sealant approved by NEOGARD®.

B. Physical properties of cured fluid-applied coating system used on this project are:

PERFORMANCE REQUIREMENTS OF CURED FILM			
PHYSICAL PROPERTIES	TEST METHOD	BASE COAT	TOPCOAT
Tensile Strength	ASTM D412	350 psi	2,500 psi
Elongation	ASTM D412	500%	450%
Permanent Set	ASTM D412	<25%	<15%
Tear Resistance	ASTM D1004	100 lb/in	250 lb/in
Water Resistance	ASTM D471	<3% @ 7 days	2.5% @ 7 days
MVT @ 30 mils	ASTM E96	1.6 English	1.3 English
Taber Abrasion	ASTM D4060	N/A	15 mg/1,000cs-17
Shore A	ASTM D2240	50 - 55	77 - 85
Adhesion	ASTM D903	5 pli	30 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. Primers: Concrete and metal primer as recommended by manufacturer.

B. Fabric reinforcement and waterproofing coverings for expansion joints shall be compatible with specified fluid-applied roofing system.

C. Miscellaneous materials such as adhesives, metal vents and drains shall be a composite part of the roof system and shall be compatible with the fluid-applied roofing system.

D. Granules (Optional): Consult NEOGARD® for recommendations.

PART 3 EXECUTION

3.1 EXAMINATION

A. Concrete: Verify that the work done under other sections meets the following requirements:
1. The concrete deck surface is free of ridges and sharp projections. If metal forms or decks are used, they should be ventilated to permit adequate drying of concrete on exterior exposed deck.
2. The concrete was cured for a minimum of 28 days. Water-cured treatment of concrete is preferred. The use of concrete curing agents, if any, shall be of the sodium silicate base only; others require written approval by NEOGARD®.
3. The concrete was finished by a power or hand steel trowel followed by soft hair broom to obtain light texture or “sidewalk” finish.
4. Damaged areas of the concrete deck are restored to match adjacent areas. Use 100% solids epoxy and sand for filling and leveling.

3.2 PREPARATION

A. Protection:
1. Keep products away from heat, sparks, and flames. Do not allow 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. Mask off or cover all air intakes near the work area to prevent odors from entering occupied areas of the building or structure.
   c. Set up wind breaks when needed.
   d. Minimize or exclude all personnel not directly involved with the fluid-applied roofing application.
   e. Have CO_2 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 fluid-applied roofing installation. Use drop cloths or masking as required.

B. Surface Preparation:
   1. Cleaning: The surface must be clean, sound, dry and free of any materials that would inhibit proper adhesion of the polyurethane sealant and fluid-applied roofing materials. To achieve a clean surface, it may require the use of cleaners, high pressure-washing, scraping, power brooming, vacuuming or other means to remove all contaminants.
   2. Cracks and Cold Joints: Visible hairline cracks (up to 1/16" in width) in concrete shall be cleaned, primed and treated with elastomeric base coat material a minimum distance of 2" on each side of crack to yield a total thickness of 30 dry mils. Large cracks (over 1/16" in width) and cold joints in concrete shall be detailed with minimum 30 dry mil thick flashing tape.
   3. Control Joints: Seal secondary control joints with polyurethane sealant. Sealant shall be applied to inside area of joint only, not applied to deck surface. Detail sealed joints with minimum 30 dry mil thick flashing tape.
   4. Surface Condition: Surface shall be clean and dry prior to coating.

3.3 APPLICATION

A. Elastomeric Coating Application:

SYSTEM A

1. Apply primer at the rate of 1/3 gallon per 100 square feet (300 sf/gal) to all concrete surfaces and allow to dry. If elastomeric base coat cannot be applied within 24 hours, reprime.
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 12 dry mils.
3. When dry, apply a second elastomeric base coat at a minimum rate of 1 gallon per 100 square feet (100 sf/gal) to yield an average 12 dry mils. Application of this coat shall be in a perpendicular direction to the previous coat.
4. When dry, apply elastomeric topcoat at a minimum rate of 1 gallon per 100 square feet (100 sf/gal) to yield an average 12 dry mils. Application of this coat shall be in a perpendicular direction to the previous coat. Total system elastomeric coating thickness to average 36 dry mils.
   *Note to specification writer: Thickness values of cured film are averages and can vary due to finish of surface.

SYSTEM B

1. Apply elastomeric base coat at a minimum rate of 1¼ gallons per 100 square feet (80 sf/gal) to roof surfaces that will receive the fluid-applied roofing system to yield an average 16 dry mils.
2. When dry, apply a second elastomeric base coat at a minimum rate of 1¼ gallons per 100 square feet (80 sf/gal) to yield an average 16 dry mils. Application of this coat shall be in a perpendicular direction to the previous coat.
3. When dry, apply elastomeric topcoat at a minimum rate of ¾ gallon per 100 square feet (133 sf/gal) to yield an average 8 dry mils. Application of this coat shall be in a perpendicular direction to the previous coat.
4. When dry, apply a second elastomeric topcoat at a minimum rate of ¾ gallon per 100 square feet (133 sf/gal) to yield an average 8 dry mils. Application of this coat shall be in a perpendicular direction to the previous coat. Total system elastomeric coating thickness to average 48 dry mils.
   *Note to specification writer: Thickness values of cured film are averages and can vary due to finish of surface.

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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