

PART 1 GENERAL

1.1 SUMMARY

- A. Provide labor, materials, equipment and supervision necessary to install a seamless, fully adhered fluid-applied roof coating system over properly prepared new or existing fully adhered and/or mechanically fastened single-ply roof surfaces. Note: Not intended for use over ballasted single-ply roof membranes. Contact Neogard for recommendations.
- 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. Section 03 30 00: Cast-In-Place Concrete
 - 2. Section 07 50 00: Membrane Roofing
 - 3. Section 07 60 00: Flashing and Sheet Metal
 - 4. Section 07 72 00: Roof Accessories
 - 5. Section 07 92 00: Joint Sealants

1.2 SYSTEM DESCRIPTION

- A. Elastacryl SP shall be a complete system of compatible materials to create a seamless waterproof fluid-applied roof coating system.
- B. Elastacryl SP shall be designated for application on the specific type of substrate as indicated on the drawings and specifications.

1.3 SUBMITTALS

- A. Technical Data: Submit Neogard product technical literature and installation instructions.
- B. Samples: Submit samples of specified fluid-applied roof coating system. Samples shall be construed as examples of finished color and texture of the system only.
- C. Applicator Approval: Submit letter from Neogard stating applicator is approved to install the specified fluid-applied roof coating system.
- D. Warranty: Submit a copy of the Neogard material warranty to meet project specifications.

1.4 QUALITY ASSURANCE

- A. Supplier Qualifications: Elastacryl SP, as supplied by Neogard, is approved for use on this project.
- B. Applicator Qualifications: Applicators shall be approved to install specified system.
- C. Requirement of Regulatory Agencies: Specified materials shall meet existing Federal, State and local VOC regulations.
- D. Field Sample:
 - 1. Install a field sample of at least 100 square feet at the project site or pre-selected area as agreed to by owner's representative, applicator and manufacturer.
 - 2. Apply material in accordance with manufacturer's written application instructions.
 - 3. Field sample will be standard for judging color and texture on remainder of project.
 - 4. Maintain field sample during construction for workmanship comparison.
 - 5. Do not alter, move, or destroy field sample until work is completed and approved by Owner's representative.

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°C. Handle products to prevent damage to container. All materials shall be stored in compliance with local fire and safety requirements. Avoid high temperatures and direct sunlight. Protect from freezing.

1.6 PROJECT CONDITIONS

- A. Prior to starting work, read and follow the SDS and container labels for detailed health and safety information.
- B. Proceed with application of materials only when substrate temperature is above 40°F/4°C and in dry conditions. Do not apply if precipitation is imminent, or to a damp or frosty surface. Temperature should more than 5°F/3°C above dew point and rising. If ambient and/or substrate temperatures are approaching or above 110°F/43°C, limit material application to evening hours.
- C. Coordinate fluid-applied roof coating system work with other trades. Applicator shall have sole right of access to the specified area for the time needed to complete the application and allow the fluid-applied roof coatings to cure adequately.
- D. Protect plants, vegetation or other surfaces not to be coated against damage or soiling.
- E. Keep products away from spark or flame. Do use equipment which may produce sparks during application and until all vapors have dissipated. Post "No Smoking" signs.
- F. Maintain work area in a neat and orderly condition, removing empty containers, rags and debris daily from the site.

1.7 WARRANTY

- A. Upon request, Neogard shall offer a manufacturer's standard warranty for institutional, commercial, industrial, and high-rise/multi-family residential projects only, after substantial completion of the application and receipt of a properly executed warranty request form. Systems described in Part 3 Execution qualify for 10- and 15-year warranties through Neogard. Contact Neogard for systems with other warranty periods.

PART 2 MATERIALS

2.1 MANUFACTURER

- A. Neogard, a part of Hempel, 2728 Empire Central, Dallas, TX 75235, 214-353-1600, www.neogard.com.

2.2 MATERIALS

- A. Fluid-Applied Roofing Materials (Hempel product numbers in parentheses):
 - 1. Primers:
 - a. TPO substrate: 7720 (263JB) high-adhesion primer.
 - b. All others: 7797/7798 (254JB) urethane primer
 - 2. Liquid Flashing: 7251 (385JB) series acrylic coating.
 - 3. Mastic: 70690 (47CJB) urethane roof mastic.
 - 4. Reinforcing Fabric: 86220 (63BJB) reinforcing fabric (Tietex T-272)
 - 5. Sealant: 70991 (47XJB) urethane sealant.
 - 6. Protective Coating: 7251 (385JB) or 7261 (387JB) single-component elastomeric acrylic coating, white in color.
- B. Typical physical properties of cured 7151 and 7261 acrylic used on this project are:
 - 1. Algal Fungal Resistance, ASTM D3274, No Growth
 - 2. Chalking, 3,000 hours, ASTM D4214, Passes
 - 3. Flexibility, 1/2" Mandrel, ASTM D522, No Cracking
 - 4. Water-vapor permeance, ASTM D1653, 20 perms

5. Accelerated Weathering, 3,000 hours, ASTM D4587, Passes
6. Visual Color Change, 3,000 hours, ASTM D1729, Passes
7. Salt Spray (fog) Resistance, 500 hours, ASTM B117, Passed
8. Dirt Pick-up % after 12 month exposure, ASTM D3719, Passed
9. Impact Resistance (30 in-lbs), ASTM D2794, Passed

- C. The above tested results are typical values. Individual lots may vary up to 10% from the typical value. Further technical information can be found at www.neogard.com.

2.3 ACCESSORIES

- A. Fabric reinforcement and waterproofing coverings for expansion joints, penetrations and 1-ply seems shall be compatible with specified fluid-applied roof coating 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 specified fluid-applied roof coating system.
- C. Granules (Optional): Granules shall be number 11 screen size, dust free, ceramic-coated roofing granule.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Inspect surfaces, which will receive the Elastacryl SP fluid-applied roof coating system to make sure they are clean, smooth, sound, properly prepared, and free of moisture, dirt, debris, or other contaminants.
- B. Verify that all roof penetrations, mechanical equipment, cants, edge metal, and other on-roof items are in place and secure.
- C. Verify that all critical areas around the immediate vicinity of the coating application area are suitably protected.
- D. Verify that roof has sufficient slope for water to drain. Note: Elastacryl SP is not designed for roofs with ponding water.
- E. Verify all roof drains are clean and in working order.
- F. Verify that all air conditioning and air intake vents are suitably protected or closed.

3.2 PREPARATION

- A. All existing HVAC and other equipment shall be protected from any damage that could be caused by the fluid-applied roof coating application.
- B. Raising, re-setting, and protection of air conditioning equipment, ventilators, and exhaust fans may be required.
- C. Protect all adjoining areas that are not to receive the fluid-applied roof coatings and provide a suitable work station to mix the coating materials.
- D. Remove all abandoned, unnecessary and non-functional equipment, deteriorated and/or water saturated roofing materials, adhesives and foreign materials down to sound substrate. Replace these areas with materials and components to match existing roof system and seal water tight. The width, adhesion and/or fastening requirements of the new materials must be compatible with the existing roof and meet local codes.
- E. All PVC or TPO patches shall be examined to determine whether or not the patch is aged or new. All new patches must be sanded to develop a suitable profile before coating materials are applied for repair or overcoat.

- F. Repair deteriorated flashings, seams, cracks, blisters, splits, fishmouths, holes and other surface imperfections including but not limited to all vertical/horizontal interfaces, roof termination points, base of all vent pipes and other protrusions, HVAC units and other roof mounted equipment using one of the following methods:
 - 1. 70690 Roof Mastic: Apply a 2" wide band of 70690 mastic material to the interface at a rate sufficient to create a smooth transition, minimum 80 wet mils. Taper the edges to the existing substrate.
 - 2. Base Coat Material with Tietex Fabric: Apply 24 wet mils of acrylic base coat material, 10" wide, over interface. Apply and center 6" wide Tietex fabric over wet base coat material. Work the reinforcing fabric into wet coating material using a brush or roller to eliminate air pockets, wrinkles and gaps. Apply additional 16 wet mils of acrylic base coat material over the entire detail and allow to cure.
- G. Fasteners which are backing out shall be repaired by re-tightening or relocating to adjacent area. Single-ply membrane shall then be patched with 6" square of Neogard 86218 flashing tape.
- H. Thoroughly clean all exposed metal surfaces such as pipe sleeves, drains, boxes, ducts, etc. Remove all loose paint, rust and asphalt or loose roofing materials of any kind.
- I. Repair or replace damaged metal and seal drains, gutters, parapet walls and caps to watertight condition. Caulk and seal to watertight condition all screws, seams, skylights, joints and any other areas where water could enter through the roof.
- J. As needed, reinforce all vertical/horizontal interfaces, including roof termination points, base of all vent pipes and other protrusions, HVAC units and other roof mounted equipment. Treatment options are as follows:
 - 1. 70690 Roof Mastic: Apply a 2" wide band of 70690 mastic material to the interface at a rate sufficient to create a smooth transition, minimum 80 wet mils. Taper the edges to the existing substrate.
 - 2. Base Coat Material with Tietex Fabric: Apply 24 wet mils of elastomeric base coat material, 10" wide, over interface. Apply and center 6" wide Tietex fabric over wet base coat material. Work the reinforcing fabric into wet coating material using a brush or roller to eliminate air pockets, wrinkles and gaps. Apply additional 16 wet mils of base coat material over the entire detail and allow to cure.
- K. All roof surfaces, whether old or new, shall be cleaned using 8500 Bio Degradable Cleaner (089JB) at the rate of 1 part concentrate to 10 parts water. Apply the diluted cleaning solution under low pressure spray at a rate of 450 square feet per gallon and allow to stand for 15 minutes. Note: Do not allow the solution to dry. Thoroughly rinse Twice with fresh water under high pressure to remove the cleaning solution. The use of stiff-bristle brooms or mechanical scrubbers may be required to remove heavy deposits of dirt or other contaminants from surface. Allow roof surface to thoroughly dry. Note: If algae is present on the surface, the cleaning must include bleach in the washing of the substrate. Follow local ordinances regarding runoff from this procedure.
- L. Before proceeding with coating application, ensure that substrate and repairs are clean, sound, dry (cured) and secure.

3.3 APPLICATION

- A. Factors That Affect Dry Film Thickness: Volume of solids, thinning, surface profile, application technique and equipment, overspray, squeegee, brush and roller wet out, container residue, spills and other waste are among the many factors that affect the amount of wet coating required to yield proper dry film thickness. To ensure that specified dry film thickness is achieved, use a wet mil gauge to verify actual thickness of wet coating applied, adjusting as needed for those factors which directly affect the dry film build.
- B. Primer:
 - 1. TPO substrate: Thoroughly mix and apply 7720 at 300–400 sf/gal (0.33–0.25 gal/100 sf) and allow to cure.
 - 2. All others: Thoroughly mix and apply 7797/7798 (254J9/946JB) urethane primer at 400 sf/gal (0.25 gal/100 sf) and allow to cure.
- C. 10-Year Warranty System:
 - 1. First Coat: Thoroughly mix and apply 7251 or 7261 coating at a minimum rate of 1.5 gallons per 100 square feet (66 sf/gal or 24 wet mils) to yield 13 dry mils and allow to cure.

2. Second Coat: Thoroughly mix and apply 7251 or 7261 coating at a minimum rate of 1.5 gallons per 100 square feet (66 sf/gal or 24 wet mils) to yield 13 dry mils and allow to cure.
 3. Optional Granule Coat: Thoroughly mix and apply 7251 or 7261 coating at approximately 1.25 gallons per 100 square feet (80 sf/gal or 20 wet mils) and immediately broadcast #11 roofing granules at the rate of 30 lbs/100 sf. After cure, remove loose granules from roof surface.
 4. Coating Thickness Requirements: Total coating system thickness shall average 26 dry mils (DFT), exclusive of Optional Granule Coat and granules. Minimum dry film thickness (DFT) at any point on the roof shall not be less than 18 dry mils. Caution: Rough surface profiles may increase the number of coats required to achieve uniform film coverage and minimum dry film thickness requirements.
- D. 15-Year Warranty System:
1. First Coat: Thoroughly mix and apply 7251 or 7261 coating at a minimum rate of 1.5 gallons per 100 square feet (66 sf/gal or 24 wet mils) to yield 13 dry mils and allow to cure.
 2. Second Coat: Thoroughly mix and apply 7251 or 7261 coating at a minimum rate of 1.5 gallons per 100 square feet (66 sf/gal or 24 wet mils) to yield 13 dry mils and allow to cure.
 3. Third Coat: Thoroughly mix and apply 7251 or 7261 coating at a minimum rate of 1.5 gallons per 100 square feet (66 sf/gal or 24 wet mils) to yield 13 dry mils and allow to cure.
 4. Optional Granule Coat: Thoroughly mix and apply 7251 or 7261 coating at approximately 1.25 gallons per 100 square feet (80 sf/gal or 20 wet mils) and immediately broadcast #11 roofing granules at the rate of 30 lbs/100 sf. After cure, remove loose granules from roof surface.
 5. Coating Thickness Requirements: Total coating system thickness shall average 39 dry mils dry film thickness (DFT), exclusive of Optional Granule Coat and granules. Caution: Rough surface profiles may increase the number of coats required to achieve uniform film coverage and minimum dry film thickness requirements.

3.4 FIELD QUALITY CONTROL

- A. Manufacturer's Field Services: Inspection by an independent third party or coating manufacturer's representative may be required to verify the proper installation of the fluid-applied roof coating system. Any areas that do not meet the minimum standards for application as specified herein shall be corrected at the applicator's expense. Manufacturer's inspection or verification shall not constitute acceptance of responsibility for any improper surface preparation or application of material.
- B. Applicator is responsible for ensuring sufficient coating is applied to the roof.

3.5 CLEANING

- A. Surfaces not intended to receive the Elastacryl SP fluid-applied coating system shall be protected during the application of the system. Should this protection not be effective, or not be provided, the respective surfaces shall be restored to their proper conditions by cleaning, repairing or replacing. All debris from completion of work shall be completely removed from the project site.

3.6 PROTECTION

- A. After completion of application, do not allow traffic on coated surfaces for a period of at least 48 hours at 75°F/23°C and 50% relative humidity, or until completely cured.

END OF SECTION

Guide Specification

Elastacryl SP

Section 07 56 00 Fluid-Applied Roofing



Issued by: Hempel (USA) – Neogard Elastacryl SP

This Guide Specification (“**Guide Spec**”) relates to the supplied products/system (“**System**”) and is subject to update from time-to-time. Accordingly, the buyer/applicator should refer to the Guide Spec current as of the time of delivery. In addition to the Guide Spec, the buyer/applicator may receive some or all of the specifications, statements and/or guidelines listed below or available at www.neogard.com (the “**Additional Documents**”):

No.	Document Description
1	PDS
2	Guide Specification
3	Application Manual
4	Other Technical Support Information (i.e. summary application tables, troubleshooting guides, maintenance manuals, chemical resistance charts and other technical information)

In the event of a conflict between this Guide Spec and the Additional Documents, the conflict shall be resolved in accordance with the order of priority set forth above. In addition, the buyer/applicator should refer to the relevant Safety Data Sheets current as of the time of delivery of the System and available at www.neogard.com. Buyer/applicator is responsible for determining the suitability of the intended use of the System, and Neogard disclaims all responsibility for any use, handling and storage of any components of the System that are not in accordance with the requirements set forth in the relevant PDS(s), this Guide Spec and the Additional Documents. The terms and provisions hereof apply to this Guide Spec, the Additional Documents and any other documents supplied by Neogard in respect of the System. The System is supplied and all technical assistance is given subject to the General Conditions of Sale of Hempel Products and/or Services available at www.hempel.com. NEOGARD MAKES NO OTHER WARRANTY THAT EXTENDS BEYOND THE WARRANTY REFERENCED THEREIN INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. NEOGARD WILL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY OR CONDITION, OR THAT IN ANY WAY ARISE IN RELATION TO THE SYSTEM. ElastacrylSP-GSCSI ksk 07072021.docx

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