Elastacryl M Section 07 56 00 Fluid-Applied Roofing



PART 1 GENERAL

1.1 SUMMARY

- A. Provide labor, materials, equipment and supervision necessary to install a seamless, fully adhered fluidapplied roof coating system over properly prepared new or existing metal roof surfaces.
- 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 05 30 00: Metal Decking
 - 3. Section 07 20 00: Thermal Protection
 - 4. Section 07 60 00: Flashing and Sheet Metal
 - 5. Section 07 72 00: Roof Accessories
 - 6. Section 07 92 00: Joint Sealants

1.2 SYSTEM DESCRIPTION

- A. Elastacryl M shall be a complete system of compatible materials to create a seamless waterproof fluidapplied roof coating system.
- B. Elastacryl M 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 warranty to meet project specifications.

1.4 QUALITY ASSURANCE

- A. Supplier Qualifications: Elastacryl M, as supplied by Neogard, is approved for use on this project.
- B. Applicator Qualifications: The Applicator shall be approved by Neogard to install the Elastacryl M fluid-applied roof coating system. Manufacturer's written verification of applicator approval is required.
- C. Regulatory Requirements: Materials used in the fluid-applied roof coating system shall meet Federal, State and local VOC regulations.
- D. Adhesion Test: An adhesion test is recommended to ensure sufficient adhesion will exist between the substrate and fluid-applied roof coatings.

1.5 DELIVERY, STORAGE AND HANDLING

- A. Containers and Packaging: Materials shall be delivered in original, tightly sealed containers, clearly labeled with the manufacturer's name, brand name, type of material and batch number(s).
- B. Storage and Handling: It is recommended to store materials at 75°F/24°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.

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1.6 PROJECT CONDITIONS

- A. Prior to starting work, read and follow the Safety Data Sheet (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 work with other trades to ensure coatings are protected from traffic and other abuse until completely cured and installation is complete.
- D. Maintain work area in a neat and orderly condition, removing empty containers, rags, and trash from the site daily.

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. Primer: 7797/7798 (254JB) general purpose urethane primer.
 - 2. Liquid Flashing: 7251 (385JB) or 7261 (387JB) acrylic coating, white in color.
 - 3. Reinforcing Fabric: 86220 (63BJB) reinforcing fabric (Tietex T-272).
 - 4. Flashing Tape: 86218 (62ZJB) flashing tape.
 - 5. Sealant: 70991 (47XJB) or other polyurethane sealant approved by Neogard.
 - 6. Elastomeric Coating: 7251 (385JB) or 7261 (387JB) single-component elastomeric acrylic coating, white in color.
- B. Typical physical properties of cured 7251 or 7261 acrylic used on this project are:
 - 1. Tensile Strength, ASTM D2370, 280 psi
 - 2. Elongation, ASTM D2370, 270%
 - 3. Permanent Set, ASTM D412, < 20%
 - 4. Water Resistance, ASTM D471, < 20%
 - 5. Shore A, ASTM D2240, 55-65
 - 6. MVT (30 mils), ASTM E96, 2.9 English
- 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 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.

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PART 3 EXECUTION

3.1 EXAMINATION

- A. Inspect surfaces, which will receive the Elastacryl M 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.
- 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 coating 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. Seal all edges.
- E. Inspect existing metal roof surface to receive coatings. Metal panels which no longer have integrity due to excessive rust and deterioration should be replaced. Metal panels with seam gaps greater than 1/8" should be stitched as tight as possible with additional stitch screw fasteners.
- F. Tighten all loose fasteners and replace stripped fasteners with oversized version of the same fastener, i.e. aluminum, galvanized, or stainless. Maintain integrity of original fastening pattern design.
- G. Loose scale or rust must be removed from metal surfaces and primed with metal primer prior to roof coating application as job conditions dictate.
- H. Detail horizontal metal seams with 86218 flashing tape. For vertical seams, use 70991 sealant when there is a tight and ordinary joint that can be efficiently filled. Apply polyurethane sealant to vertical joints and smooth out lumps or imperfections in the application while still wet and allow to thoroughly cure.
- I. Apply polyurethane sealant around fasteners and strike or tool into place to achieve a smooth transition and allow to thoroughly cure.
- J. Round projections, machine legs, sign posts, guide wire straps, inside and outside corners, etc. can be flashed with polyurethane sealant.
- K. Clean and seal all drains, gutters, parapet walls and caps to watertight condition. Repair any damaged metal. Caulk and seal to watertight condition, all screws, seams, skylights, joints, pipes, voids, protrusions and any areas where water could enter through the roof.

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- L. As needed, reinforce all vertical/horizontal interfaces, roof termination points, base of all vent pipes and other protrusions, HVAC units and other roof mounted equipment with 86218 flashing tape or elastomeric acrylic coating with embedded 6" wide reinforcing fabric at 24 dry mils. Note: If elastomeric acrylic coating and reinforcing fabric are used, work reinforcing fabric into wet coating using a brush or roller to eliminate air pockets, wrinkles and gaps, applying additional coating material as necessary to totally encapsulate the reinforcing fabric.
- M. All roof surfaces, whether old or new, shall be cleaned using Neogard 8500 BioDegradable 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 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.
- N. 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: Thoroughly mix and apply 7797/7798 at a rate of 400 square feet per gallon.
- 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

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- 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 M 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

Issued by: Hempel (USA) – Neogard Elastacryl M

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. ElastacryIM-GSCSI ksk 07072021.docx

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