ELASTA-GARD™ M II

Fluid-Applied Roof Coating System

DESCRIPTION

Elasta-Gard™ M II is comprised of a single component aromatic polyurethane base coat and topcoat. The system forms a waterproofing membrane with superior weatherproofing, durability, flexibility, and color retention for long-term protection over metal for institutional, commercial, industrial, and high-rise/multi-family residential projects.

USES

- Existing metal roof substrates

ADVANTAGES

- Sustainable
- Flexible and resilient
- Water resistant
- Seamless application
- Excellent bond strength to properly prepared substrates
- Low permeability
- High solar reflectance for reduced energy consumption
- ASTM E-108 Class A Spread of Flame rated

LIMITATIONS

- Moisture sensitive; do not apply to damp, wet or contaminated surfaces
- Not intended for ponding water

INSTALLATION

The following information is to be used as a guideline for installing the Elasta-Gard™ M II Fluid-Applied Roof Coating System. For complete application instructions, please see NEOGARD's® Roof Coating Application Manual.

MATERIAL LIST

- ☐ Cleaner: 8500 BioDegradable Cleaner Concentrate
- ☐ Primer: Metal primers by NEOGARD®
- ☐ Liquid Flashing: 70611 series single component moisture cured polyurethane coating
- ☐ Flashing Tape: 86218 flashing tape
- ☐ Reinforcing Fabric: 86220 reinforcing fabric (Tietex T-272)
- ☐ Sealant: 70991 or 70995 urethane sealant
- ☐ Base Coat: 70611 series single component moisture cured polyurethane coating
- ☐ Topcoat: 70611 series single component moisture cured polyurethane coating
- ☐ Optional Granule Coat: 70611 series single component moisture cured polyurethane coating
- ☐ Optional Granules: #11 roofing granules
- ☐ Cleaning Solvent: 20653 Xylene Thinner or 7055 Odorless Reducer

COLORS & PACKAGING

- 70611 - Light Gray (5 and 55 gallon containers)
- 70612 - Tan (5 and 55 gallon containers)
- 70613 - White (5 and 55 gallon containers)

TYPICAL PHYSICAL PROPERTIES

70611 Series Base Coat/Topcoat

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	0.147 (lbs-force)
Water Resistance	ASTM D471	<3% @ 7 days
Shore A	ASTM D2240	70 - 75
Solar Reflectance Index (White)	ASTM E1980	98

ADHESION TEST

An adhesion test is recommended to ensure sufficient adhesion will exist between the substrate and fluid-applied roof coatings. Refer to the Field Adhesion Testing section of NEOGARD's® Roof Coating Application Manual for adhesion test methods.

PROJECT CONDITIONS

- Prior to starting work, read and follow the Material Safety Data Sheet (MSDS) and container labels for detailed health and safety information.
- Do not proceed with application of fluid-applied roof coating materials when substrate temperature is less than 40°F, if precipitation is imminent or to a damp or frosty surface. Temperature should be above 40°F and more than 5°F above dew point and rising. Special precautions may need to be taken when ambient and/or substrate temperatures are approaching, at, or above 110°F and it may be necessary to limit material application to evening hours.
- 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.
- Maintain work area in a neat and orderly condition, removing empty containers, rags, and trash from the site daily.

SUBSTRATE PREPARATION

- All existing HVAC and other equipment shall be protected from any damage that could be caused by the fluid-applied roof coating application.
- Raising, re-setting, and protection of air conditioning equipment, ventilators, and exhaust fans may be required.
- 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.
- 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 with urethane sealant and/or single component urethane coating.

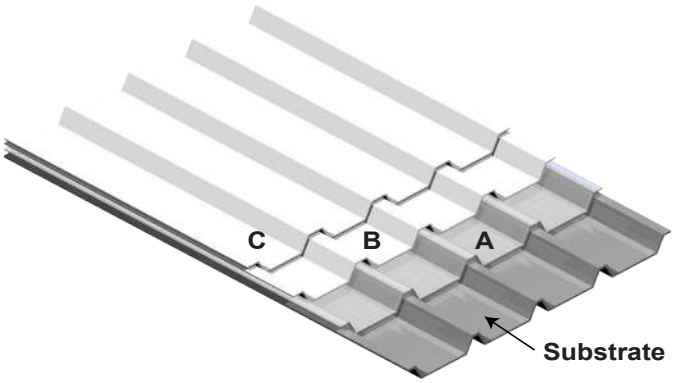
- Inspect existing metal roof surface to receive coatings. Metal panels which no longer have integrity due to excessive rust and deterioration should be replaced. Metal panels with seam gaps greater than 1/8" should be stitched as tight as possible with additional stitch screw fasteners.
- Tighten all 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.
- Loose scale or rust must be removed from metal surfaces and primed with metal primer prior to roof coating application as job conditions dictate.
- Detail horizontal metal seams with NEOGARD® 86218 Eternabond Flashing Tape. For vertical seams, use NEOGARD® 70991 or NEOGARD® 70995 polyurethane 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.
- Apply polyurethane sealant around fasteners and strike or tool into place to achieve a smooth transition and allow to thoroughly cure.
- Round projections, machine legs, sign posts, guide wire straps, inside and outside corners, etc. can be flashed with polyurethane sealant.
- 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.
- 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 NEOGARD® 86218 flashing tape or elastomeric base coat with embedded 6" wide reinforcing fabric at 24 dry mils. Note: If elastomeric base coat and reinforcing fabric are used, work reinforcing fabric into wet base coat using a brush or roller to eliminate air pockets, wrinkles and gaps, applying additional base coat material as necessary to totally encapsulate the reinforcing fabric.
- All roof surfaces, whether old or new, shall be cleaned using NEOGARD® 8500 BioDegradable Cleaner at the rate of 1 part concentrate to 10 parts water. Apply the diluted cleaning solution under low pressure spray at a rate of 150 to 200 square feet per gallon and allow to stand for 15 minutes. 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.
- Before proceeding with coating application, ensure that substrate and repairs are clean, sound, dry (cured) and secure.

MIXING

Read product labels and application instructions prior to use. Products must be mixed due to settling and are formulated to be installed as manufactured, without thinning. If thinning is required, do not thin coating material more than 10% and only after materials are mixed. See compatible thinners and additional mixing instructions in the NEOGARD® Application Manual or contact NEOGARD Technical Service at techservice@neogard.com.

APPLICATION

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.



Coating Application Summary Table

COAT	PRODUCT	MIX RATIO	COVERAGE	MILS DFT
(A)Primer	33014/99951	4:1	300-400 sf/gal	N/A
(B)Base Coat	70611	N/A	133 sf/gal	9
(C)Topcoat	70611	N/A	133 sf/gal	9
(Optional) Granule Coat[1]	70611	N/A	100 sf/gal	12

[1]Optional granules are evenly broadcast into wet topcoat at the rate of 30-40 lbs/100 sf.

1. Primer: For previously coated or factory finished metal roofs, apply 33014/99951 (white) UREPRIME® HS4 primer at a rate of 300 - 400 sf/gal.
2. Base Coat: Thoroughly mix and apply 70611 series single component moisture cured polyurethane coating at approximately 133 sf/gal (0.75 gal/100 sf or 12 wet mils) to yield 9 dry mils and allow to cure.
3. Topcoat: Thoroughly mix and apply 70611 series single component moisture cured polyurethane coating at approximately 133 sf/gal (0.75 gal/100 sf or 12 wet mils) to yield 9 dry mils and allow to cure.
4. Optional Granule Coat: Thoroughly mix and apply 70611 series

single component polyurethane coating at approximately 100 sf/gal (1.0 gal/100 sf or 16 wet mils) and immediately broadcast #11 roofing granules at the rate of 30 lbs to 40 lbs /100 sf. After cure, remove loose granules from roof surface.

Coating Thickness Requirements: Total coating system thickness shall average 18 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 12 dry mils. Caution: Rough surface profiles may increase the number of coats required to achieve uniform film coverage and minimum dry film thickness requirements.

FIELD QUALITY CONTROL

Manufacturer's Field Services: Inspection by an independent 3rd 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. It is the responsibility of the applicator to make sure there is sufficient coating applied to the roof.

CLEAN UP

Observe all fire and health precautions when handling or storing solvents. Clean all mixing and application equipment immediately after use with 20653 xylene thinner, 7055 odorless reducer, toluene, or mineral spirits. Surfaces not intended to receive the ELASTA-GARD™ M II fluid-applied coating system 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.

STORAGE

Containers of fluid-applied coating material should be stored in a cool (75ºF) area to ensure long shelf life. To prevent container rupture due to very high temperature, keep away from heat and/or open flames.

HEALTH AND SAFETY

Before using this product, carefully read the Material Safety Data Sheet (MSDS) and container labels for detailed health and safety information. This product is intended for industrial use by properly trained professional applicators only.

PROTECTION

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

CREDENTIALS

OTHER RESOURCES

- Guide Specification
- Product Data Sheets
- Warranty Samples
- Maintenance Manual
- Application Manual
- Troubleshooting Manual
- Color Cards

Project Information

Job Name: _____ System Installed: _____ Area: _____

Address: _____ City: _____ State: _____ Zip: _____

	Primer (Gals)	Base Coat (Gals)	Intermediate Coat (Gals)	Topcoat (Gals)	Aggregate (Pounds)
Product Number:					
Quanity:					
Batch Numbers:					

Occurance Keys:

1 Change Order 2 Weather Related 3. Preparation 4. Primer 5. Base Coat 6. Wear Coat 7 Topcoat 8. Other

Date	Occurance	Temp F	R.H.	Description (Describe Occurance such as weather, area coated, change order, wind, etc.)

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