

PG-2100 AC MIP (MANUFACTURED IN PLACE) MINERAL CAP SHEET SPECIFICATION

MINERAL CAP SHEET MEMBRANE SYSTEM

10 YEAR STANDARD ACRYLIC (1 PLY FABRIC)

INSTALLATION GUIDE SPECIFICATION 07570

PART 1 GENERAL

1.01. SUMMARY

A Provide labor, materials, equipment and supervision necessary to install spray-applied seam polyester reinforced elastomeric acrylic coating of system as outlined in this specification for the installation of MIP Membrane over a Mineral Cap Sheet.

B. The manufacturer's application instruction for each product utilized is to be considered part of these specifications and should be followed at all times.

1.02. QUALITY ASSURANCE

A. Supplier Qualifications: The Proguard MIP Membrane System, as supplied by Proguard Group Company (PG) is approved for use on the project.

B. Applicator Qualifications: The applicator shall be approved by The Proguard Group to apply the system. Manufacturer's written verification of applicator approval is required.

C. Field Quality Control: Upon completion of the Proguard Metal Refurbish System installation, an inspection by The Proguard Group or PGG's designated third party inspection firm may be required. Consult with PGG for details and warranty requirements.

1.03. SUBMITTALS

A. Product Data: Submit Proguard product data sheets and installation instructions.

B. Submit material safety data sheets.

1.04. PRODUCT DELIVERY, STORAGE AND HANDLING

A. Containers and Packaging: Deliver materials in original sealed containers, clearly marked with manufacturer's logo, full product name, and lot number(s).

B. Storage and Handling: Store materials between 40°F and 100°F with careful handling to prevent damage to products. If conditions exceed these ranges, special consideration in storage must be taken. Do not store at high temperatures or in direct sunlight.

C. Protection: Protect all materials from freezing and other damage during transit, handling, storage, and installation.

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1.05. PROJECT CONDITIONS

- A. Consult the coating manufacturer for recommendations on the proper system to use on project substrate and at expected substrate and ambient temperatures. Under no condition shall the coating be applied when the substrate temperature is expected to be below 40°F or is expected to reach freezing within 24 hours Do not apply coatings when wind velocity is above 15 mph .
- B. Do not apply materials unless surface to receive 100% acrylic coating is clean and dry.
- C. If any area under the Cap Sheet is saturated, it must be removed before application.
- D. The entire system shall be fully adhered to the surface on which it is applied. Voids left under the system caused by bridging is not acceptable
- E. Install all material in strict accordance with all published safety, weather, or applicable regulations of the manufacturer and/or federal agencies, which have jurisdiction.

1.06. DETAIL WORK

- A. Refer to Proguard's Detail Drawings for preparation and finishing of drains, vents, ducts, flashing, parapet walls, etc. The contractor should outline this work before work commences, and shall be performed observing good trade practices.

PART 2 PRODUCTS

2.01. SPRAY-APPLIED ELASTOMERIC, ACRYLIC COATING SYSTEM

- A. The coating shall be the spray applied Proguard elastomeric acrylic coating system, manufactured by The Proguard Group Company.
- B. Physical Properties of Cured Coating System:

PROPERTIES	ASTM METHOD	RESULT	PG-2100 EC
Tensile Strength, psi (Max@ 73°F)	06083/ 0-412	Minimum 200	>200
% Elongation @ Break (73°F)	06083/ 0-412	Minimum 100	>100%
Wet Adhesion to Specified Substrate	06083	Minimum 2.0 ply	>2.0
Permeance, perms	06083	Maximum 60	<60
Volume Solids %	06083	> 50	55.0
Weight Solids %	06083	> 65	65.0

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2.02. ACCESSORIES AND MISCELLANEOUS MATERIALS

- A. Polyester fabric must be at least 3.ounce such as Hanes PF
- B. Flashing and waterproof coverings for expansion joints shall be compatible with the PG coatings.
- C. Miscellaneous materials such as adhesives, elastomeric caulking compounds, Metal, vents and drains shall be a composite part of the roof system and shall be compatible with the coating materials.

PART 3 EXECUTION

3.01. MANUFACTURER'S INSTRUCTIONS

- A. Compliance: Comply with manufacturer's product data, including product technical bulletins and product guide specification instructions

3.02. EXAMINATION

- A. Inspect surfaces, which will receive the coating system to make sure they are clean, smooth, sound, properly prepared, and free of moisture, dirt, debris, or other contamination.
- 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 spray area are suitably protected.
- D. Verify that all roof drains are clean and in working order.
- E. Verify that all air conditioning and air intake vents are suitably protected or closed.

3.03. SURFACE PREPARATION

A. GENERAL

- a. Existing roofing materials shall be securely fastened to meet wind uplift requirements.
- b. All roofing surfaces shall be free of loose material, grease, soft asphalt, and other materials that could interfere with adhesion. Typically this can be achieved by power washing. Severe contamination may require industrial cleaning products. Check with your Proguard Representative for recommendations.
- c Areas of ponded water must be repaired with the application of SPF or the installation of additional drains.

B. METAL

- a The Cap Sheet roof should be repaired and made watertight according to manufacturers recommended procedures.

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- b. All penetrations and edges should be sealed with polyester fabric and with PG Caulk Flashing Sealant
- c. Reseal around all mechanical equipment and roof penetrations with PG-Caulk Flashing Sealant and polyester fabric.
- e. All valley areas, waterways, drain areas or other area where there is the possibility of water accumulation.
 - i. Apply Proguard 2100 AC in a 45 inch wide strip at a rate of 1.5 gallons per 100 square feet.
 - ii. Apply Proguard~ 'A°C'" in a 45 inch wide strip at a rate of 1.5 gallons per 100 square feet.
 - iii. Immediately apply a second coat of Proguard 2100 AC to surface of the fabric at a rate of 1 gallon per 100 square feet.
 - iv. Both the first and second coats shall extend at least two inches beyond the edges of the polyester
 - v. Large areas may need multiple widths of fabric. In these areas the fabric should be overlapped at least 4 inches.
 - vi. Coating and fabric should always extend at least six inches above the maximum potential waterline.
- f. Allow to dry for at least 12 to 24 hours, preferably 72 hours.

3.04. APPLICATION

A. Elastomeric Acrylic Coating System:

a. The entire roof shall receive the Proguard Restoration System consisting of one layer Hanes 40" polyester reinforcing fabric and a minimum 4.5 gallons per 100 square feet of Proguard AC coating, applied evenly in at least 3 separate coats, as described below. Total minimum system thickness of 45 mils including polyester fabric.

- i. Apply Proguard 2100 AC in a 45 inch wide strip at a rate of 1.5 gallons per 100 square feet.
- ii. In the wet coating. Immediately embed the 40 inch wide hanes 40" polyester reinforcing fabric. To insure a completely smooth surface use a light broom to saturate the fabric and work out all fabric wrinkles and fish mouths.

NOTE: Typically polyester fabric has one edge that is thicker. Be sure the thin edge is always layed on top of this thicker edge.

- iii. Immediately apply a second coat of Proguard 2100 AC to surface of the fabric at a rate of 1 gallon per 100 square feet.
- iv. To ensure a complete seal continue this process over the whole roof always overlapping the baric at least 4 inches.
- v. Additional coating will be required at these overlaps to ensure complete saturation of the fabric.
- vi. Fabric should be continued all the way to roof edges or all the way up parapets so that system is always terminated under metal flashing.

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- vii. Note: For other roof configurations consult your Proguards Systems representative.
- viii. Allow system to completely cure before continuing. In normal conditions this will take 8 to 24 hours.
- b. Apply One coats of topcoat to achieve both a minimum of 12 dry mils Topcoat thickness and a minimum overall system thickness of 30 dry mils.
- c. Apply the Topcoat at a rate of approximately 1.5 gallons per 100 square feet to achieve the specified thickness.
- d. These minimum recommendations for material usage are for ideal conditions. The number of gallons per 100 square feet may need to increase due to uneven application, roof profile, wind conditions while spraying, or other variables.
- e. No coating shall be applied if weather will not allow it to dry prior to exposure to precipitation or freezing temperatures.
- f. Allow to thoroughly dry before exposing to foot traffic.

3.05. FIELD QUALITY REQUIREMENTS

A. Inspection by the coating manufacturer's representative shall be made to verify the proper installation of the system. Any areas that do not meet the minimum standards for application as specified herein shall be corrected at the contractor's expense.

3.06. CLEANING

A. Surfaces not intended to receive spray polyurethane foam insulation and/or elastomeric coating materials shall be protected during the application of the system. Should this protection not be effective, or not be provided, provided, the respective surfaces shall be restored to their proper conditions by

B. Cleaning, repairing or replacing. All debris from completion of work shall be completely removed from the project site. The site shall be left in a broom-clean condition.

3.07. MATERIAL

B. The following materials are available from The Proguard group:

- a. Proguard 2100 AC series-100% acrylic, high performance elastomeric roof coating
- b. Proguard Caulk - Acrylic Flashing sealant.
- c. Hanes 40"series - 40 inch Polyester Fabric
- d. Hanes 40"series - 40 inch Polyester Fabric

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. The prospective user should determine the suitability of our materials and installation recommendations before adopting them for commercial use.
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