



TECHNICAL DATA SHEET
Pro-Grade® 599
Rubberized Aluminum Roof Coating

Physical Property	Typical Value	Test Method
Appearance	fluid	-
Elongation, Initial	>300%	ASTM D412
Flash Point	105° F	ASTM D3278
Solids Content by Volume	>40-45%	ASTM D2697
Viscosity (Brookfield)	4,500-7,500 cPs	ASTM D2196
VOC Content (maximum)	500 g/l	EPA Method 24
Weight per Gallon	8.6-9.4 lbs.	ASTM D1475
Solar Reflectance, Initial	0.69	ASTM C1549
Solar Reflectance, 3 Yr.	0.50	ASTM C1549
Thermal Emittance, Initial	0.40	ASTM C1549
Thermal Emittance, 3 Yr.	0.48	ASTM C1549
Solar Reflectance Index (SRI), Initial	70	ASTM E1980
Solar Reflectance Index (SRI), 3 Yr.	42	ASTM E1980

Approvals and Certifications

- Complies with ASTM D2824, Type III – Standard Specification for Aluminum-Pigmented Asphalt Roof Coatings, Non-fibered, and Fibered without Asbestos
- ENERGY STAR® Certified for low and steep sloped roofs
- Miami-Dade County Approved
- Florida Approved
- Cool Roof Rating Council (CRRC) Rated
- Can contribute to LEED certification credits

Description

Pro-Grade® 599 Rubberized Aluminum Roof Coating is a premium, highly reflective coating made with SBS rubber polymers, which provides outstanding strength and elastic properties. It is an excellent weathering surfacing for new or aged asphalt roof surfaces including smooth BUR, modified bitumen membranes and metal roofs. It is suitable for commercial, institutional, and industrial applications. Its highly reflective properties will extend roof life expectancy by retarding the adverse effects of solar radiation and reducing roof surface temperatures. It also reduces interior building temperatures. NOT FOR SALE IN CALIFORNIA.

Features

- 12-year warranty
- Solvent-based energy saving reflective coating
- Lowers roof and interior temperatures
- Rubberized – 300% elongation
- Resists ponding water
- One coat application
- Low temperature application
- Brush, roller or spray applied

Usage

Coating can be used on low and steep slope roofs to provide protection for newly applied roof assemblies or aged and structurally sound roof systems. Acceptable roof types include smooth asphaltic built-up roofing (BUR), modified bitumen (MB), metal roof, previously coated roofs and asphalt emulsion. As a rubber modified coating, it is an excellent choice when a coating is needed on a roof that exhibits movement. The formula is rubberized to expand and contract with the roof to resist cracking. It is an excellent choice when concerned with maximizing reflectivity when using an aluminum coating. High quality aluminum pigments are used in a proprietary formulation designed to allow the aluminum pigments to dry in the most optimized pattern, helping to keep the inside of the building cooler, thereby reducing air conditioning costs. It is also used in many Henry® Restoration Systems (HRS) which are

Pro-Grade® 599 Rubberized Aluminum Roof Coating

designed to preserve, protect and restore your current roof membrane vs. doing a costly tear off and reroof. Contact Henry® Company for details.

Application

Clean: Before coating the roof use a pressure washer with greater than 2,000 psi to clean the roof with a non-filming detergent, such as TSP or TSP substitute. Use appropriate pressure and take caution not to inject water into the roofing substrate when power washing. In areas with stubborn dirt, grease or other contaminants, use a stiff bristle brush or broom to scrub the areas clean with additional water and non-filming detergent. Treat mildew or mold. Remove rust on metal with a wire brush, sandblast, or mechanically abrade until substrate is smooth and rust free. Rinse the roof to ensure it is free of all detergent or anything else that could affect adhesion. Using a leaf blower or broom, clear any remaining dust, dirt, debris, and other foreign material that may prevent proper adhesion.

Repair: Carefully inspect area to be coated, including around pipes, chimneys, equipment, roof edges and walls. On asphaltic roofs, repair all cracks, breaks, splits, and holes and seal around all roof penetrations, transitions, roof flashings, or any other areas susceptible to leaks with a premium Henry® solvent-based mastic and fiberglass reinforcing fabric; such as **Henry® 209 Extreme Wet Patch® Roof Leak Repair** and **Henry® 183 Roof Repair Fabric**. When used with **Henry® 183**, **Henry® 209** offers a lifetime warranty. Contact Henry® Company for details. Allow the solvent-based mastic to cure before coating to avoid discoloration. On metal roofs, seal all details/flashings and horizontal seams with **Henry® 295 Metal Seam Sealer** or **Henry® 513 Elasto Flashing Compound** with polyester fabric as indicated in the appropriate Henry® Restoration System (HRS) Guide Specification. All leaks must be sealed prior to application of coating.

Apply: Surface must be dry, clean and free of oil, grease, dirt, excess mortar, frost, laitance, loose and flaking particles, or other contaminants. The coating can be applied with a soft-bristled brush, heavy nap roller, or commercial grade spray equipment designed for use with solvent-based coatings and equipped with solvent resistant Vyton-type rubber seals. Stir coating thoroughly using mechanical mixer, before and during application. Apply liberally in one direction only. Do not lap. Over-working interferes with leafing action of aluminum. Care should be taken to coat at a consistent coverage rate. Failure to continuously mix product before and during use, inconsistent coverage rates, or applying in multiple directions hinders the leafing action of the aluminum and may lead to varying shades of color when the product dries. Can be applied in temperatures ranging from 40° F (4° C) to 100° F (38° C).

Note: Existing roof membrane, insulation and all substrates must be sound and dry. Coating must be mechanically stirred thoroughly before and during application. Do not thin. Do not apply if there is a threat of rain, dew, or frost within 48 hours. Do not heat container or store at temperatures greater than 110° F. CLOSE AIR INTAKES ON ROOF UNTIL SOLVENTS DISSIPATE. Not for use over plywood, walking decks, gravel, areas with inadequate drainage (e.g. ponding water), EPDM, PVC, Hypalon®, or TPO single ply membrane, Kynar® / Hylar® coated metal roofs, shingles of any kind, or old roofs that are too dry and brittle to withstand the shrinkage stresses that occur after the application of any coating.

Coverage

Minimum coating coverage is 1.5–2.5 gallons/square. Application rates should be adjusted to meet each particular roof's specified requirements. Coverage rates are theoretical and do not take into account for material loss due to spraying, surface texture, etc. Thicker dry film results in better performance and longer coating life.

- For Henry® Material Plus and Gold Seal Warranty, see appropriate Henry® Restoration System (HRS) Guide Specifications coating coverage rate requirements by substrate and duration.

Clean-up

Remove coating from tools, etc. with kerosene, paint thinner, or mineral spirits. Use care when handling solvents. Clean hands with waterless hand cleaner.

Packaging

5 Gallon

Limited Product Warranty

We, the manufacturer, warrant only that this product is free of defects, since many factors which affect the results obtained from this product - such as weather, workmanship, equipment utilized and prior condition of the substrate - are all beyond our control. We will replace at no charge any product proved to have a material defect within 12-years of purchase, provided it has been applied in accordance with our written directions for uses we recommend as suitable for this product. Proof of purchase must be provided.

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