



Physical Property	Typical Value	Test Method
Appearance	fluid	-
Flash Point	Non-flammable	ASTM D3278
Solids Content by Volume	>22-26%	ASTM D2697
Viscosity (Brookfield)	3,500-6,500 cPs	ASTM D2196
VOC Content (maximum)	50 g/l	EPA Method 24
Weight per Gallon	9.2-9.6 lbs.	ASTM D1475
Solar Reflectance, Initial	0.51	ASTM C1549
Solar Reflectance, 3 Yr.	0.50	ASTM C1549
Thermal Emittance, Initial	0.55	ASTM C1549
Thermal Emittance, 3 Yr.	0.53	ASTM C1549
Solar Reflectance Value (SRI), Initial	47	ASTM E1980
Solar Reflectance Value (SRI), 3 Yr.	44	ASTM E1980

Approvals and Certifications

- UL Certified as a component within Class “A” and “B” fire rated roof coverings
- Cool Roof Rating Council (CRRC) Rated
- Can contribute to LEED certification credits
- Conforms with ASTM D6848 – Standard Specification for Aluminum Pigmented Emulsified Asphalt
- Used as a Protective Coating for Roofing
- Meets SCAQMD VOC standards

Description

Pro-Grade® 588 Aluminum WB Roof Coating is designed to add years of service and reflectivity to a roof surface. **Pro-Grade® 588** is a combination of premium aluminum flakes suspended in emulsified asphalt providing outstanding weathering resistance and reflectance. This product reduces surface temperature and penetration of the sun’s rays to the roof surface, thereby retarding deterioration of that surface. It helps reduce interior temperature and protects the roof and roofing membrane by reducing heat absorption, asphalt oxidation, and rapid thermal dimensional changes.

Features

- One-coat application
- Helps lower interior temperatures as well as energy costs
- Designed to protect roof membranes and extend roof life cycle
- VOC compliant – including within the SCAQMD
- Easy application and clean-up

Usage

Pro-Grade® 588 can be used as a reflective coating over new or aged smooth surfaced built-up roofing, smooth and granulated modified bitumen membranes, aged galvanized metal and new asphalt emulsion.

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.

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Repair: Surface must be clean and in good repair. Carefully inspect area to be coated, including around pipes, chimneys, equipment, roof edges and walls. Repair all cracks, breaks, splits and holes by embedding polyester fabric or open mesh glass fabric between 2 heavy coats of **Henry® 204 Plastic Roof Cement**, **Henry® 505 Flashmaster™**, or **Henry® 289 White Roofing Sealant** applied over and at least 2 inches beyond repair. **Henry® 289 White Roofing Sealant** can usually be coated within 24 hours. Use **Henry® 209 ElastoMastic®** on all metal roofs. Allow mastic to cure before coating to avoid discoloration. Seal leaks before coating. Solvent-based roof coatings and newly applied hot asphalt must be allowed to cure a minimum of 3 months prior to coating. Wire brush all rusted metal. Product can be applied directly to granulated mineral cap sheet roofing (conventional or modified) or to weathered metal roofing which is clean, dry and in good repair. For all other surfaces, first apply a base coat of **Pro-Grade® 197 Asphalt Emulsion** at a rate of 3-4 gallons per 100 square feet. Emulsion base coat must be fully cured before applying **Pro-Grade® 588**; usually in 1-7 good drying days.

NOTE: Existing roof membrane, insulation and all substrates must be sound, dry, clean and free of oil, grease, dirt, excess mortar, frost, laitance, loose and flaking particles, or other contaminants. All leaks must be sealed prior to application of coating.

Apply: Stir material in container thoroughly in a bottom to top motion. Do not use high speed mixers. Apply with a good quality soft synthetic bristle brush/broom, long napped (1/2") roller, or spray gun (0.35 to 0.80 inch orifice). Apply liberally in one direction only. Avoid over-working, which will interfere with the leafing action of the aluminum and create a dark surface. Do not use a standard stiff bristle roofing brush; poor coverage, streaking, or a grained appearance may result.

For best results, it is recommended to spray applications of **Pro-Grade® 588** as a single coat. Spray in parallel strokes to avoid blotchy appearance. Coating should be applied under normal environmental conditions without thinning.

Curing: Allow enough time for new roofing to cure completely before applying aluminum roof coating. Failure to allow for complete cure may result in cracking, alligatoring, or wide fissures opening up within the **Pro-Grade® 588** film.

Asphalt emulsion coating and solvent vehicle asphalt primer are usually completely cured within a few days in good drying weather, when applied according to Henry® Company's recommendations (avoid over application). Solvent based asphalt roof coatings or newly applied hot asphalt coatings should be allowed to cure a minimum of 30 days in good drying weather. After the hot asphalt coating has cured, a 3-4 gallons/100 square feet application of **Pro-Grade® 197** must be applied before applying **Pro-Grade® 588**.

Drainage: Pro-Grade® 588 is to be applied only to roofs with positive drainage. The minimum roof slope for use of coating products is 1/4" in 12". **Pro-Grade® 588** may not be used on surfaces that experience ponding water. Ponding water is defined as water remaining on a roof surface 48 hours after rain has stopped.

Application to Various Modified Bitumen Surfaces:

SMOOTH OR SAND SURFACE (APP or SBS Modified)

- All surfaces must be brushed and washed clean. Allow to dry.
- Surfaces of systems adhered by hot mopping or torching may be washed as soon as the membrane is installed and cooled.
- Surfaces of cold application method (adhesive) systems may be coated after 60 days, if the surface is capable of being walked on.
- Surfaces exposed more than 6 months must be power-washed AND primed with base coat of **Pro-Grade® 197** at 2-3 gallons per 100 sq. feet.
- All newly applied surfaces must be vigorously brushed and washed with a trisodium polyphosphate solution until all surface separating agent is removed. Surface may be washed as soon as the membrane is installed and cooled. Flush surface and allow to dry before applying the coating.
- Surfaces that have been weathered more than 30 days OR surfaces that exhibit oil/exudation must be power washed.
- Smooth surface APP exposed more than 5 years must be power-washed AND primed with a Henry® Primer.

GRANULE SURFACED MODIFIED SBS OR APP BITUMEN MEMBRANES

- Hot mopped or torch applied membranes should be coated as soon after installation as is practical.
- Surfaces of cold application method (adhesive) may be coated after 60 days, if the surface is capable of being walked on.
- Prior to coating, ensure that granules are tight and that the membrane is in good condition.
- Wash with standard water pressure and detergent. Flush and allow to dry. Surface may be washed as soon as the membrane is installed and cooled.
- Excessively weathered and loose granules must be power washed with a minimum of 1500 psi water jet. Flush and allow to dry. Mechanically remove loose granules by brush and vacuum all loose surfacing. Excessively weathered surfaces should be primed with a solvent primer.

NOTE: Due to the molecular characteristics of asphalts and the blending of APP copolymers used in the production of some modified bitumen membranes, they may exude oil. This is most likely to happen as a result of hot and/or humid weather and elevated surface temperatures. If APP modified bitumen membranes exude oils extensively, they can cause roof coatings to delaminate and discolor.

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Do not use high-shear pumps and mixers, which will damage the aluminum and create a dark surface. Use only diaphragm pump and hand or low speed mechanical mixing. Do not apply unless temperatures are at least 50° F (10° C) and rising. Do not apply if there is a threat of rain, dew, or temperatures below 50° F forecasted within 24 hours. **Pro-Grade® 588** should not be stored at elevated temperatures. Storage at excessive temperatures may result in premature gassing of the product in the container. Keep from freezing. Do not heat container or store at temperatures greater than 110° F (43° C). Product has a limited shelf life; but may be stored up to 6 months at room temperature.

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 gallons/square. Coverage varies with surface texture. Application rates should be adjusted to meet each particular roof's specified requirements. Coverage rates are theoretical and do not take into account 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

All equipment can be cleaned up with water and heavy duty detergent. Dried material can be removed with kerosene or mineral spirits. Use care in handling solvent.

Packaging

5 Gallon, 50 Gallon, 250 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 7-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. **DISCLAIMER OF WARRANTIES AND LIMITATION OF LIABILITY: THIS LIMITED WARRANTY IS IN LIEU OF ANY OTHER WARRANTIES EXPRESS OR IMPLIED INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. MANUFACTURER SHALL HAVE NO LIABILITY OF ANY KIND BEYOND PRODUCT REPLACEMENT, INCLUDING FOR CONSEQUENTIAL, EXEMPLARY OR INCIDENTAL DAMAGES RESULTING FROM ANY DEFECTS OR ANY DELAYS CAUSED BY REPLACEMENT OR OTHERWISE. IF PURCHASER DOES NOT ACCEPT THESE TERMS OF HENRY'S LIMITED WARRANTY, PURCHASER MAY RETURN WITHIN 30-DAYS OF PURCHASE ALL CONTAINERS OR PACKAGES OF PRODUCT PURCHASED FOR A FULL REFUND (PROVIDED THE CONTAINERS OR PACKAGING IS UNOPENED AND LESS SHIPPING CHARGES IF ANY). RETENTION OF PRODUCT BEYOND 30-DAYS FROM PURCHASE, OR USE OF PRODUCT SHALL CONSTITUTE ACCEPTANCE OF HENRY'S LIMITED WARRANTY TERMS, CONDITIONS AND DISCLAIMERS. THIS LIMITED WARRANTY PROVIDES THE PURCHASER'S EXCLUSIVE REMEDY FOR ANY DEFECT IN THE PRODUCT.** To the extent that any part of this LIMITED PRODUCT WARRANTY AND LIABILITY DISCLAIMER is determined unenforceable under the law of the place of purchase of the product, that part is severed and the remainder of these terms remain in full force and effect. To the extent permitted by law, the duration of any implied warranties is limited to the duration of Henry's express warranty.

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Henry® Company, 999 N. Sepulveda Blvd., Ste. 800 El Segundo, CA 90245

Tel: 800-486-1278 Email: techservices@henry.com

www.henry.com

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