



Last Rev Date: 07/11/2014

Physical Properties

Appearance Liquid	Heat Resistance No sag (ASTM D-2939)	Thermal Emittance, Initial 0.55
Brookfield Viscosity 7000 cPs, 20 RPM @ 77° F (ASTM D-2939)	Maximum VOC 50 g/l	Viscosity 5000 - 8000 20rpm 77°F, cPs
Color Silver	Solar Reflectance, Initial 0.51 (ASTM C-1549)	Water By Volume 72.8%
Flash Point 212° F (ASTM D-2939)	Solids By Weight 37.0% (ASTM D-2939)	Water By Weight 64.6%
Flexibility (Low Temperature) Pass (ASTM D-2939)	Specific Gravity @ 77° F (25°C) 1.11	Weight Per Gallon 9.1-9.5 lbs (ASTM D-2939)
Freezability Do not freeze	SRI, Initial 47	

Approvals and Certifications

Manufactured to meet the requirements of ASTM D-6848. UL Classified and Fire Rated. Contact Henry Technical Service Dept. for further details.



Description

HE558 - AQUA-BRITE ALUMINUM ROOF COATING, a professional's product is designed to add years of service and reflectivity to a roof surface. **HE558 - AQUA-BRITE ALUMINUM ROOF COATING** 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. Meets SCAQMD standards. Replaces products formerly marketed as **ProGrade #818 AquaBrite** and **Henry #229 Aluminum Emulsion**.

Usage

HE558 - AQUA-BRITE ALUMINUM ROOF COATING can be used as a reflective coating for smooth surfaced built-up roofing and modified bitumen membranes. The following types of roof systems can also be coated when they are properly prepared: smooth surfaced asphalt roofing, weathered asphalt built-up roofing, and weathered galvanized metal.

Coverage

Coverage is 1.5 gal. per 100 sq. ft. on smooth surfaces. Coverage varies with surface texture.

Surface Preparation

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 30 days 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. Remove all debris, loose gravel, and dirt from the roof by brooming or vacuuming; power-wash the entire roof. 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 **Henry #107® Asphalt Emulsion** at a rate of 3-4 gallons per 100 square feet. Emulsion base coat must be fully cured before applying **HE558 - AQUA-BRITE ALUMINUM ROOF COATING**; usually in 3-7 good drying days.

Application

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 at 1.5 gallons per 100 square feet. Apply liberally, brushing in one direction only. Avoid over-brushing, 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 **HE558 - AQUA-BRITE ALUMINUM ROOF COATING** 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 the surface to cure completely before applying aluminum roof coating. Failure to allow for complete cure may result in cracking, alligating, or wide fissures opening up within the **HE558 - AQUA-BRITE ALUMINUM ROOF COATING** film.

Asphalt emulsion coatings 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 **Henry HE107 Asphalt Emulsion** must be applied before applying **HE558 - AQUA-BRITE ALUMINUM ROOF COATING**.

DRAINAGE:

HE558 - AQUA-BRITE ALUMINUM ROOF COATING is to be applied only to roofs with positive drainage. The minimum roof slope for use of coating products is 1/4" in 12". **HE558 - AQUA-BRITE ALUMINUM ROOF COATING** 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.

GENERAL SURFACE PREPARATION:

Determine the type of roof surface. Repair all blisters, breaks, buckles, and loose membranes before applying the coating. If the surface is contaminated with a fungus or mold, wash thoroughly with a mixture of 1 cup of household bleach in 5 gallons of water. Allow to stand 1 hour. Rinse thoroughly. Repeat if necessary. The surface must be thoroughly flushed and dried to accept any coating.

Consult with the manufacturer of the modified bitumen membrane to determine if their membrane will accept a coating. Review joint task force statement from the RCMA and ARMA on "Methods for Preparation of Modified Bitumen Membranes for the Application Surface Coatings".

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 **HE107 Asphalt Emulsion** at 2-3 gal. per 100 sq.ft.
- 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

Application

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 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.

GENERAL 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.

Precautions

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. **HE558 AQUA-BRITE ALUMINUM ROOF COATING** 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. When transporting this product, be sure the pail is secured and the lid is tight. Do not allow pail to tumble as this may loosen the lid and allow leakage to occur. 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.

NOTE: This coating, like all asphalt-based products, forms a small amount of water soluble material as it weathers. Normally this is not noticeable because the rain washes it away. However, roofs having a pitch less than 1/2" per foot, or ones having poor drainage, will accentuate the problem by allowing water to stand in low spots, thus concentrating the water soluble material. If there is no rainfall, hose these roofs off to remove the water solubles. Frequent inspection of these roofs is recommended because abnormally rapid deterioration of any roofing material may occur where water stands for long periods.

Cleanup

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.

Caution

CAUTION! Do not heat container or store at temperatures greater than 90° F. Close container after each use. **DO NOT TAKE INTERNALLY!** Use protective measures to avoid contact with eyes and skin. **If swallowed, CALL PHYSICIAN IMMEDIATELY!** **In case of eye contact,** open eyelids wide and flush immediately with plenty of water for at least 15 minutes. **GET MEDICAL ATTENTION.** **In case of accidental injection** with power spray equipment, **GET MEDICAL ATTENTION IMMEDIATELY.** **KEEP OUT OF REACH OF CHILDREN! DO NOT ALLOW THIS PRODUCT TO FREEZE!**

WARNING: This product contains detectable amounts of chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

EMPLOYERS should obtain a copy of the **Material Safety Data Sheet (MSDS)** from your supplier or directly from the toll free number or website below.

Product Sizes

GALLON (9.37 lb)
250 GALLON (2366 lb)

5 GALLON (46.86 lb)

50 GAL/186 L (538.5 lb)

Limited Warranty

The Stay Bright® 7 year Extended Warranty is in addition to our Limited Warranty. Call and request a Henry #558 Product Data Sheet for details.

LIMITED 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 be defective within 12 months of purchase, provided it has been applied in accordance with our written directions for uses we recommended 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 FOR A PARTICULAR PURPOSE. MANUFACTURER SHALL HAVE NO LIABILITY OF ANY KIND BEYOND PRODUCT REPLACEMENT, INCLUDING FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES RESULTING FROM ANY DEFECTS OR ANY DELAYS CAUSED BY REPLACEMENT OR OTHERWISE. THIS LIMITED WARRANTY PROVIDES THE PURCHASER'S EXCLUSIVE REMEDY FOR ANY DEFECT IN THE PRODUCT.**