

HE107 – Asphalt Emulsion

Physical Properties:

- Colour	Black liquid	- Base	Asphalt, bentonite clay emulsion
- Consistency @ 25°C	Thixotropic liquid	- Brookfield Viscosity	8,000-15,000 cps (ASTM D-2196)
- Solids Content	40-50% by volume (ASTM D-2697)	- Flammability	Non-flammable, wet
	47-53% by weight (ASTM D-2939)	- Flash Point	100°C
- Application Temperature	10°C and rising. 60°C and decreasing.	- Fire Rating	Classified by Underwriters Laboratories Canada® & Underwriters Laboratories Inc.® for use in Class A and B Systems.
- Maximum VOC	0 g/l (calculated)		
- Maximum VOS	0 g/l (calculated)		

Description

HE107® Asphalt Emulsion is a premium, versatile coating for the protection of roofing materials, metal, and masonry surfaces. Solvent free, it is made from asphalt emulsified with bentonite clay and water. HE107 is cold applied, non-flammable while wet, corrosion-resistant, and waterproof when dry. HE107 does not crack, "alligator," run, or sag under extreme weather conditions. HE107 resists most corrosive fumes and spray.

Features/Benefits

- A highly versatile coating for multiple uses.
- Easy to apply and water-based.

Uses

May be used in the following applications:

- As a protective coating for new or existing composition roofs with smooth (non-gravelled) surfaces.
- As a base coat for reflective coatings.
- In the Henry Monolithic™ System with chopped glass reinforcement for roofing and waterproofing. Specifications are available upon request.
- As a waterproofing adhesive for polyester systems. Specifications are available upon request.
- Damp-proofing exterior below-grade foundations and walls.
- Anti-corrosive protection for metal roofs, steel structures, pipes, and tanks above or below ground level. HE107 has not been tested or approved by the NSF for contact with potable water.
- Protective lining for planters and septic tanks.

Limitations

Do not apply when air and surface temperature is below 10°C, or if there is threat of rain, fog, dew, or temperatures below 10°C within 48-72 hours. Do not store product above 50°C or below 0°C. Apply to structurally sound surfaces. Do not use over gravel, TPO, shingles or PVC sheet roofing. The usual age limit for roofs to be coated is 7 to 10 years, but this varies with condition of the roofing. Application over hot-applied asphalt without reinforcement may not prevent alligatoring.

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Preparation

Refer to pail instructions and Guide Specifications for detailed application information.

Carefully inspect area to be coated, including around pipes, chimneys, equipment, roof edges, and walls. Repair all cracks, breaks, splits, and holes by embedding HE195 Polyester Fabric between 2 heavy coats of Bakor 810-47® Plastic Roof Cement applied over and at least 5 cm beyond the repair. After sealing leaks, allow to cure for 30 days. Note: HE107 is not designed to seal leaks!

Surface must be structurally sound, clean and in good repair. Remove rust by wire brushing. Sweep or hose down area to remove all dust, dirt, and residues. Scrub areas where water ponds with detergent and water, and rinse well. Repair ponding areas with Henry 176® PondPatch. A tighter bond will result if surface is damp when coating is applied, but it must be free of standing water. Stir thoroughly--HE107 is thixotropic and comes to the right consistency for application when stirred. If applying to a hard-to-clean surface such as a built-up roof from which the gravel has been removed or concrete or masonry, prime with HE107 thinned with 20% water.

Coverage in L/m²:

- Maintenance surfacing 1.22
- MONOLITHIC™ surfacing 3.67 with 3# chopped glass
- Embedment coating w/polyester 1.63

Application

Apply emulsion by roofing brush or spray. Uniformly cover the surface at the rate of 1.22 to 1.43 L/m² per application. For additional protection, apply a 2nd coat at the same rate as soon as the first coat is thoroughly dry and firm enough to take foot traffic without damage. Brush the second coat at right angles to the first. Apply a reflective coating as soon as the top coat has completely cured.

Maintenance Systems:

To renew smooth-surface roofs, reinforce valleys, and seal flashings, apply a base coat of HE107 at 1.22 to 1.43 L/m². Embed a layer of polyester fabric without wrinkles or buckles into the wet base coat as reinforcement and "broom in" immediately. When dry enough to take foot traffic, apply a 2nd coat of HE107 at 1.22 to 1.43 L/m². Top with a reflective coating as soon as the emulsion has completely cured.

DRYING: Usually occurs in 6-24 hours in hot and dry weather conditions. Drying will be slower, 2 to 7 days, in cool, damp weather. Allow to dry completely between coats. Coating becomes waterproof only after drying thoroughly.

MONOLITHIC™:

Cover prepared surfaces with not less than 3.67 L/m² of HE107 evenly blended with 1.22 L/m² of 2 cm of # 189 Fiberglass Roving sprayed with equipment approved by Henry Company. Finish to be 72 mils dry.

Damp-proofing of Exterior Surfaces Below Grade - Dense Surfaces:

For dense concrete surfaces not subject to hydrostatic pressure, a single coat of HE107, approximately 2 mm in thickness is generally adequate. If applying by spray or for severe conditions, two coats are preferable. Apply each coat at 1.22-1.43 L/m², allowing first coat to dry before applying second coat. Fill in all crevices and grooves, making sure coating is continuous and free from breaks and pinholes. Carry coating over exposed top and outside edge of footing. Spread around all joints, grooves, and slots and into all chases, corners, reveals, and soffits. Bring the coating to finished grade.

Damp-proofing of Exterior Surfaces Below Grade - Porous Surfaces:

For damp-proofing of porous surfaces such as concrete block, 3 alternate techniques are equally effective; base your selection upon local preference and the availability of equipment.

- A) Two Coat System:** Apply a base coat of HE107, cut 20% by volume with clean water, over entire prepared surface. Apply base coat at a rate of 0.61 L/m². Allow base coat to dry tacky to touch and apply 1 coat of HE107 as described under Dense Surfaces. Allow to set 24 to 48 hours before backfilling as described previously.
- B) Membrane System:** For severe conditions or added protection, apply a base coat followed by a coat of HE107 as described above. Within 2 hours, apply Henry #195 Fabric over all surfaces of coating, overlapping edges at least 7-9 cm. Embed glass fabric into coating without wrinkles or buckles. Within 24 hours apply an additional coat of HE107; allow to set at least 24 to 48 hours and backfill as previously described.
- C) Parge Coat System:** Apply a parge coat of cement mortar to the block wall, carrying the parge coat from the bottom of the footings to grade level and forming a cove at the junction of the wall and footing. Allow to cure. Apply 1 to 2 coats of HE107 as described under Dense Surfaces. Allow to set and then backfill as previously described.

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Interior Surfaces Above Grade - Weather Resistive Barrier:

HE107 is used for damp-proofing the exterior face of interior walls in cavity wall construction. HE107 is compatible with masonry, concrete, CMU, and gypsum sheathing. Apply product in 1 coat, carrying the coating in and around all joints, grooves, and slots, following all reveals and soffits of windows and continuing 0.3 meters out on adjoining partitions and soffits. Allow to set. If walls are to receive hard wall plaster, use furring strips or metal lath.

Drying: Usually 8 to 12 hours in warm, dry weather. Drying will be slower, 2 to 7 days, in cool, damp weather. Allow to dry between coats. On below-grade foundations, let cure at least 24 to 48 hours, with good air circulation, before exposure to water or backfilling. Use forced air if needed. COATING BECOMES WATERPROOF ONLY AFTER DRYING THOROUGHLY! Test for dryness in slowest drying area by vigorously rubbing the surface with a wet finger. Coating is dry if no staining occurs. The dry membrane should be protected from back-filling damage by installing Henry Protection Board, adhered with Bakor 810-47.

Protection

Both horizontal and vertical areas must be protected.

Clean Up

Use soap and water.

Caution

Harmful if swallowed.

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