

Henry® CM100 Fast Curing, Elastomeric Fluid Waterproofing/Roofing Membrane

Physical Properties: Manufactured to meet the requirements of ASTM C836, CAN/CGSB 37.58, Miami-Dade County

-Color	Brown	-Service Temperature	-40°F to 200°F
-Solvent Content	0 %	-Flash Point (open cup)	>232°C (450°F)
-Solid Content	97%	-Maximum V.O.C.	< 40 grams/liter
-Rate of Application	<u>High Build</u> -Horizontal: 120 mils (3 mm) total fabric reinforced system -Vertical: 120 mils (3 mm) total fabric reinforced system <u>Single Coat</u> Horizontal: 120 mils (3 mm) Vertical: 60 mils (1.5mm) Approx.	-Elongation(ASTM D412)	575%
		-Recovery (ASTM D412)	95%
		-Shore A Hardness (ASTM C661)	Min 60
		-Adhesion in Peel after Water Immersion (ASTM C836)	Pass
-Coverage	0.64 m ² /l (26 ft ² / US Gal) at 60 mils 0.32 m ² /l (13 ft ² / US Gal) at 120 mils	-Water Vapor Permeance (ASTM E96) Procedure A (Dry Cup)	3 mm (120 mils) film 3.09 ng/ Pa m ² sec (0.054 perms)
-Min. Application Temp.	3°C (37°F)	Procedure B (Inverted Wet Cup)	20.6 ng/ Pa m ² sec (0.36 perms)
-Setting Time	@ 50% R.H. 22°C (72°F)@ 60mils <u>First Coat High Build (60 mils)</u>	-Hydrostatic Pressure Resistance (ASTM D5385)	>0.69 MPa (100 psi)
-Initial Set	1 hour	-Low Temp. Crack Bridging Capability (ASTM C 836)	No cracking No splitting No loss of adhesion
-Set Through	3 hours <u>Single Coat/ Top Coat (120 mils)</u>	-Flammability	Non-Flammable
-Initial Set	1 Hour	Wet	
-Set Through	12 Hours *Allow 24 hours to cure in cool and low humidity conditions.		
-Low Temperature Flexibility and Adhesion (ASTM D4388) @ Minus 10°C (13°F)	No cracking No loss of adhesion No delamination		

Description

Henry® CM100 is a fast curing, one component elastomeric, solvent free, moisture cure waterproofing compound designed to provide a cold alternative to hot applied rubberized membrane systems or replace conventional hot mop felt ply and/or pre-formed sheeting systems. It is applied in a high build two ply systems or single application which cures through reaction with atmospheric moisture to provide a heavy-duty “seamless” rubber-like, impervious membrane.

Features

- Solvent free
- Can be applied to green concrete 24 hours after forms are removed
- Fast curing cold applied membrane
- Very low odor
- Seamless rubberized asphalt membrane
- Excellent adhesion to most construction surfaces such as concrete, stone, wood, cement and metal
- Safe for use in confined spaces or “hard to get at” applications

Uses

Henry® CM100 may be used as a waterproofing and roofing membrane on horizontal or vertical surfaces. Ideal alternative to hot rubberized membranes applications for podium decks, plaza decks, balconies, tunnels, foundation walls, planters, and protected roof membrane assemblies.

Packaging

Henry® CM100 is packaged in 18.93L (5 gallon) pails.

Limitations

Must be protected by appropriate overlay. Not intended for use as a permanently exposed surface, although it will tolerate foot and incidental, light, rubber-wheeled traffic when set. Do not apply to wet or contaminated substrate. Substrate temperature must be above 2°C (35°F) and rising and 15°C (5 °F) and rising above the dew point temperature. Henry® CM100 may not be compatible with various asphaltic products. Consult Henry prior to using in combination with other products.

Preparation

Acceptable substrates are cast-in-place and precast concrete, gypsum board and plywood. Joints, cracks and expansion joints must be treated as per detailed Guide Specifications. Lightweight insulating concrete is not an acceptable substrate. Installation on concrete placed over non-vented metal is not recommended. Henry® CM100 can be applied to green concrete 24 hours after forms are removed. Surfaces to be treated should be reasonably smooth. Concrete should have wood float finish or similar. Rough surfaces tend to promote air entrapment in the compound during application, which might result in small blistering in the waterproofing membrane. Such surfaces also require use of more material. Before application of Henry® CM100, the substrate shall be clean, dry to touch, free from surface water, ice, snow or frost, dust, dirt, oil, grease, curing compounds or any other foreign matter detrimental to the adhesion of the membrane.

Application

Refer to Henry® CM100 Guide Specifications and details for detailed application information. For ease of application, condition material to room temperature prior to application. All surfaces to be coated must be above 32°F (0°C). Apply material with a trowel, roller or long-handle squeegee. Squeegee applications are preferred for horizontal decks.

Henry® CM100 can be applied in two types of systems. **High Build Reinforced Systems** are used for critical below grade waterproofing or roofing such as plaza decks, podiums, roof terraces or IRMA roof applications. **Single Coat Systems** are used for general waterproofing such as foundation walls and planter boxes.

High Build Reinforced Systems: Fabric reinforced systems consist of two applications of Henry® CM100 reinforced with Henry® Polyfab Polyester Fabric. Use Henry® 990-25 membrane where flashing sheets are required.

-Horizontal application: Pour Henry® CM100 on surface to be covered and spread to an even thickness using a rubber squeegee or rollers. Apply first application at minimum thickness of 60 mils (1.5mm); embed polyester fabric immediately overlapping a minimum of 6mm (1/2") ensuring full contact. Let first coat set and then apply second coat at a minimum of 60 mils (1.5mm) thickness. Acceptable protection courses include Henry® G100s/s, 990-31, GR08 or a semi-rigid asphalt board. Protection course may be spot adhered with additional Henry® CM100 as needed.

-Vertical application: Spread CM100 to an even thickness using a trowel or roller. Apply first application at minimum thickness of 60 mils (1.5mm); embed polyester fabric or flashing sheet ensuring full contact. Bond overlaps of flashing sheet with Henry® CM100. Let first coat set and then apply second coat at a minimum of 60 mils (1.5mm) thickness. Install protection course or drain board, when required, after Henry® CM100 fully cures.

Single Coat Systems: Single coat systems consist of one application of Henry® CM100. Use Henry® 990-25 membrane where flashing sheets are required.

-Horizontal application: Pour Henry® CM100 on surface to be covered and spread to an even thickness using rubber squeegees or rollers. Apply at a minimum thickness of 120 mils and allow 24 hours to fully cure.

-Vertical application: Spread to an even thickness using a trowel or roller. Apply at a minimum thickness of 60 mils (1.5 mm).

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Note: For best results when applying CM100 in cold and/or low atmospheric humidity conditions spray apply a light mist of water over the surface of wet CM100 to accelerate the curing process. Do not allow the water to pool or pond. Do not water spray in temperatures below freezing or if freezing temperatures are expected within 24 hours of installation of CM100.

Protection

CM100 must be allowed to cure 24 hours prior to application of protection course. Henry® CM100 should be adequately protected from construction activities and installation of overburden. Acceptable protection courses include Henry® G100s/s, 990-31, GR08, appropriate Henry drain board or a semi-rigid asphalt board. Work only off boards or sheets previously placed. Contact Henry Technical Services if hot mix paving will be installed over the Henry® CM100 system.

Shelf Life

6 months in unopened containers when stored in dry conditions.

Precautions

DO NOT THIN. Do not heat container or store at temperatures greater than 38°C (100°F). When transporting this product, make sure the pail is secured and the lid is tight to prevent spills.

Clean Up

Use mineral spirits for general clean-up before product cures. Use waterless hand cleaner to remove from skin.

Caution

WARNING. Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Prevention: Wash thoroughly after handling. Avoid breathing mists and sprays. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection.

Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs; Get medical advice or attention. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists; Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Storage: Store in a well-ventilated place. Store locked up.

Disposal: Dispose of contents/containers in accordance with local/regional/national/international regulations.

See safety data sheet for further details regarding the safe use of this product.

KEEP OUT OF REACH OF CHILDREN.

This product contains chemicals known to the State of California to cause cancer and/or birth defects or other reproductive harm.

LIMITED PRODUCT WARRANTY AND LIABILITY DISCLAIMER

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-months 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 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 ALL CONTAINERS OR PACKAGES OF PRODUCT PURCHASED FOR A FULL REFUND (PROVIDED THE CONTAINERS OR PACKAGING IS UNOPENED AND LESS SHIPPING CHARGES IF ANY) WITHIN 30-DAYS OF PURCHASE. 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.** For further details of Henry's product warranty, see our website at www.henry.com/warranty.

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