C.I.M. Industries Inc.
A Chase Corporation Company

CIM 800

HIGH PERFORMANCE COATINGS AND LININGS

OVERVIEW

DESCRIPTION CIM 800 is a tough, weather durable, waterproofing coating specifically formulated to meet the demands of waterproofing above or below grade. This two component, cold, liquid applied urethane coating adheres to most materials to form a permanent seamless barrier to water. It is especially well suited for roofs over critical spaces (e.g. clean rooms, control rooms), green roofs, plaza decks, areas with multiple penetrations and curbs, and between-slab waterproofing.

ADVANTAGES CIM 800 is specifically formulated to meet the demands of today's waterproofing market. This tough urethane coating offers exceptional performance.

- Liquid applied and self adhering to most materials used in roofing construction.
- Tested to ANSI 118.10-199, "Standard Specification for Load Bearing, Bonded, Waterproof Membrane for Thin-Set Ceramic Tile and Dimension Stone Installation".
- Can be applied to complex areas with multiple penetrations and curbs.
- Coating is tough enough to stand up to normal pedestrian traffic.
- Environmentally sound, complying with the toughest VOC standards.
- Accepts aggregate toppings as an integral part of the system for color, texture, traction, and added UV resistance.
- An excellent gutter material.
- Self flashing.

SURFACE PREPARATION

GENERAL: Substrates must be **clean and dry** with no oils, grease or loose debris. CIM Bonding Agent is recommended on all non-porous substrates. Perform adhesion tests to confirm adequacy of surface preparation. See C.I.M. Industries' specific substrate Instruction Guide for specific guidelines.

CONCRETE: ICRI-CSP 4-6 surface profile exposing aggregate. Concrete must exhibit minimum 3,000 psi compressive strength and be free of release agents and curing compounds. The substrate must be clean and dry (see CIM Instruction Guide IG-2), and free of contaminates.

STEEL: Minimum 3 mil profile.
Non-Immersion service – SSPC-SP6 / NACE No. 3 Commercial Blast.
Use CIM Bonding Agent for greater adhesion.

OTHER METALS: SSPC-SP1 solvent clean and abrasive blast to roughen and degloss the surface. Use CIM Bonding Agent for greater adhesion.

GLASS: Thoroughly clean. CIM Bonding Agent must be used for increased adhesion.

WOOD: Substrate must be clean, dry and free of surface contamination.

PREVIOUS COATINGS AND LININGS: CIM 800 may be applied over some existing coatings and linings and achieve acceptable performance. CIM Bonding Agent is recommended for greater adhesion. Finished system results vary due to a variety of project specific factors, including the service conditions to which the system is exposed. Therefore, C.I.M. Industries does not accept responsibility for determining the suitability of an existing coating or lining as a substrate for CIM products. Owner shall perform adhesion tests on any existing coating or lining to determine suitability.

EARTH: Use CIM Scrim.

COLOR CIM 800 is initially shiny black, turning dull over 3 to 6 months when exposed to direct sunlight. For a colored or reflecting surface finish, see C.I.M Industries' Instruction Guide, "Topcoats" (IG–7) for further instructions.

SOLIDS BY VOLUME 90% (1448 dry mils x sq. ft./gal.)

VOC 95 g/l (0.80 lb/gal) . CIM 800 complies with the toughest VOC regulations.

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All information presented in this publication is believed to be accurate, but it is not to be construed as a guarantee of minimum performance. Test performance results are obtained in a controlled laboratory environment using procedures that may not represent actual operating environments.

TYPICAL PROPERTIES

Abrasion Resistance - Wt. Loss, Taber Abraser CS-17 Wheel, 1000 gr./1000 rev. ASTM D4060	1.2 mg. Loss
Adhesion to Concrete (dry) Elcometer	350 psi
Deflection Temperature, (Minimum Use Temperature) ASTM D648	below -40°F
Density (Approx.)	
Premix	8.0 lbs./gal.
Activator	10.1 lbs./gal.
Mixed & Cured	8.5 lbs./gal.
Elastomeric Waterproofing	
ASTM C836	exceeds all criteria
ASTM C957	exceeds all criteria
Extension to Break ASTM D412	400%
Flammability	
ASTM D2859	pass/combustible substrate
UL790	Class A[1]
Flooring and Shower Lining UPC/IBC ANSI 118.10	Pass
Green Roof Membrane/Root Barrier ANSI/GRHC/SPRI VR-1 2011	Pass
Hardness, Shore A ASTM D2240 @ 77°F	60
Liner Performance	
Crack Bridging	
10 cycles @ -15°F	greater than ⅛"
After heat aging	greater than ¼"
Liner Weight	37.8 lbs./100 sq. ft.
Mix Ratio	
Weight	7.7:1
Volume	9.6:1
Mullen Burst Strength ASTM D751, 50 mil	100 psi
Permeability to Water Vapor ASTM E96 Method E, 100°F, 100 mil sheet	0.03 perms
Recovery from 100% extension:	
after 5 minutes	98%
after 24 hours	100%
Service Temperature	-60°F to 180°F
Softening Point, Ring & Ball ASTM D36	275°F
Tear Strength ASTM D624 (Die C)	115 lbs./in.
Tensile Strength ASTM D412,100 mil sheet	800 psi

[1]Contact C.I.M. Industries for details regarding UL fire ratings

CHEMICAL RESISTANCE

CIM 800 Coating is resistant to incidental contact from a broad range of acids and alkalis.
Consult C.I.M. Industries for additional information regarding chemical resistance.

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GENERAL APPLICATION INFORMATION

FOR PROFESSIONAL USE ONLY.

PRECAUTIONS Avoid contamination with water or moisture. Keep all pails and jugs tightly closed until ready for use. All equipment, air supplies, and application substrates must be **ABSOLUTELY DRY**. Do not apply in wet weather or when rain is imminent or when the CIM 800 or the substrate may become wet within 4 hours after coating. Use caution when applying CIM 800 in confined spaces. See C.I.M. Industries' Instruction Guide, "Applying CIM Within Confined Spaces" (IG–9).

TEMPERATURE Surface should be at least 50°F (10°C) and must be 5°F (3°C) above the dew point. **DO NOT APPLY WHEN THE SUBSTRATE OR AMBIENT TEMPERATURE IS RISING OR COATING IS IN DIRECT SUNLIGHT**. CIM 800 should be at least 50°F (10°C) when mixed and applied. CIM 800 may be preheated to facilitate application at low temperatures, but working time will be reduced. See C.I.M. Industries' Instruction Guide "Applying CIM Coatings in Cold Weather" (IG–11).

EQUIPMENT Spray equipment requires large diameter hose and air supplied mastic gun. Airless pump may be used to provide fluid side pressure. See "Spray Application of CIM Coatings" (IG–12) or contact C.I.M. Industries for specific recommendations. Roller, squeegee and trowel may also be used.

POT LIFE About 45 minutes. Working time depends on temperature and method of application. Working time for spray application requirements will be significantly shorter.

PRIMING Porous substrates such as wood and concrete may be primed with CIM Epoxy Primer to minimize outgassing. The maximum recoat window for CIM Epoxy Primer is 48 hours. See CIM Epoxy Primer Technical Data Sheet for additional information. Perform adhesion tests to confirm adequacy of adhesion to primer.

MIXING **DO NOT THIN. DO NOT HAND MIX.** Begin mixing each pail (4.5 gal.) of CIM 800 Premix using a power mixer (e.g. ½" drill and an eight inch mud mixer). Do not draw air into the mix. While mixing, slowly add one jug (0.5 gal.) of CIM 800 Activator to the pail and mix thoroughly for **3 FULL MINUTES**. The proportions are pre-measured. **DO NOT ESTIMATE**. Mixing Jigs and Timers are available from C.I.M. Industries to help eliminate mixing errors and increase productivity on the job. See C.I.M. Industries' Instruction Guide, "Mixing CIM Premix and Activator" (IG–8).

APPLICATION Apply CIM 800 directly to a clean and dry substrate. Vertical surfaces will require multiple coats. See C.I.M. Industries' specific substrate Instruction Guide for additional guidelines.

RECOATING CIM 800 may be recoated in 1 hour and must be recoated soon after the coating no longer comes off on polyethylene (typically within 4 hours of mixing). If the coating has cured longer than this time, the surface must be severely abraded using surface grinder or other mechanical means, and be free of dust and debris. Use CIM Bonding Agent for better adhesion.

RECOMMENDED MINIMUM THICKNESS Recommended minimum thickness of the coating is 60 wet mils. Contact C.I.M. Industries for additional information. Refer to CIM 800 Coverage Chart for coverage rates.

CURING TIME Typically, CIM 800 can be placed in service within 24-48 hours. Contact C.I.M. Industries for specific recommendations.

CLEAN-UP Use mineral spirits for clean-up of uncured material. Spray equipment must be flushed regularly during application to prevent material from setting up in the hose and pump. Cured material is very difficult to remove. Soaking in solvent will soften the material and may assist in its removal.

CONTACT C.I.M. INDUSTRIES FOR SPECIFIC RECOMMENDATIONS AND INSTRUCTION GUIDES.

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SHIPPING, STORAGE AND SAFETY DATA

WARNING **Flammable. Use only in well ventilated areas. Do not store or use near open flame, sparks or hot surfaces. Keep tightly closed. Avoid contact with moisture or water. Keep out of reach of children.**

SAFETY INFORMATION This product contains petroleum asphalt, petroleum distillates, amine compounds and/or other chemical ingredients. Adequate health and safety precautions should be observed during storage, handling, application and curing. Refer to C.I.M. Industries' Material Safety Data Sheets for further details regarding the safe use of this product.

PACKAGING CIM 800 is available in mixed units of 5 gallons. Each unit consists of a container of premix and a smaller container of activator. Quantities have been premeasured to provide the proper mixing ratio, leaving sufficient room in the premix container to facilitate adequate mixing. **Do not estimate proportions.**

SHIPPING	**Premix**	**Activator**
Weights		
5.0 gallon units	36 lb/pail	5 lb/jug (30 lb/case of 6)
Properties		
Flash Point	101°F	>400°F
Shipping Name	Not Regulated*	Not Regulated
DOT Class	Not Regulated*	Not Regulated
STORAGE		
Temperature	20°F to 110°F	70°F to 95°F
Shelf Life	2 years	1 year
NFPA	Class II	Class III B

* Reclassed based on container size and physical properties, see SDS for additional details

WARRANTY & LIMITATION OF SELLER'S LIABILITY

CIM warrants as follows: (1) that for a period of five (5) years from the date of shipment to the initial purchaser the Membrane Products, when mixed in prescribed ratios and for the prescribed length of time, (a) will not become brittle or crack and (b) will provide a water barrier and (2) that the Membrane Products will, at the time of manufacture, conform to CIM's current quality standards. Notice in writing, of water leakage or other potential claim or breach under this warranty, must be provided to CIM within seven (7) days of the claimed leakage, claim or breach.

If CIM determines, at its sole discretion, that a breach of warranty has occurred, CIM's sole responsibility shall be repayment of the purchase price of the non-conforming Membrane Product or, at CIM's option, resupply of conforming Membrane Product to replace the non-confirming Membrane Product. No warranty shall apply to any Membrane Product subjected to misuse, improper installation, repair alteration, neglect, accident, abnormal conditions of operation, or use in any manner contrary to instructions

EXCEPT FOR THE EXPRESS WARRANTIES CONTAINED IN THIS WARRANTY CIM MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED (INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE) CONCERNING ITS MEMBRANE PRODUCTS.

IN NO EVENT SHALL CIM BE LIABLE OR OBLIGATED IN ANY MANNER FOR ANY SPECIAL, INCIDENTAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES OF ANY KIND (INCLUDING WITHOUT LIMITATION LOST PROFITS) REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT PRODUCT LIABILITY, OR OTHERWISE.

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