



CIM 1061

COMMERCIAL INDUSTRIAL MEMBRANE FOR POTABLE WATER SYSTEMS

COATING PROFILE

DESCRIPTION CIM 1061 is a tough, abrasion, corrosion and chemical resistant waterproofing membrane specifically for use in water and waste water applications including those which require ANSI/NSF 61 potable water certification. Typical applications include tank and reservoir liners, joint seals, tank repairs, and chemical containment.

ADVANTAGES CIM 1061 is one of the toughest coatings available, specifically formulated to meet the demanding needs of the water/waste water industries:

- ANSI/NSF 61 certified for potable water contact up to 140°F. (UL Control No: 69Y5).
- Forms a tough elastomeric membrane able to bridge cracks and joints.
- Meets the most demanding health and safety requirements such as for drinking water, fish hatcheries, and food processing plants.
- Adheres to and bridges between common construction materials such as concrete, steel, glass, wood, and most coatings.
- Environmentally sound, complying with the toughest VOC standards.
- Can be repaired when damaged or when new tank penetrations are installed.
- Excellent wear and abrasion service.
- UV stable
- Liquid, two-component urethane can be applied even to complex tanks with multiple penetrations, and irregular shapes.

SURFACE PREPARATIONS

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 (less than 5% moisture), and free of contaminates.

STEEL: Minimum 3 mil profile.
Immersion service – SSPC-SP10 / NACE No. 2 Near White Blast.
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. For immersion service roughen the surface.

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

PREVIOUS COATINGS AND LININGS: CIM 1061 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 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 1061 is initially shiny black, turning dull over 3 to 6 months when exposed to direct sunlight. For a colored or reflecting surface finish, recoat the CIM 1061 and immediately broadcast white or colored aggregate into the coating. See C.I.M. Industries' Instruction Guide, "Topcoats" (IG-7) for further instructions.

SOLIDS BY VOLUME 88% (1416 dry mils x sq. ft./gal.)

RECOMMENDED COVERAGE Recommended minimum thickness at all points of the coating is 60 wet mils. Higher coverages may be specified, but extended time is required to insure proper solvent release prior to placing the membrane in potable water service. Contact C.I.M. Industries for additional information.

VOC 90 g/l (0.75 lb./gal.). CIM 1061 complies with the toughest VOC regulations.



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TYPICAL PROPERTIES

<p>Abrasion Resistance - Wt. Loss Taber Abraser CS-17 Wheel 1000 gr./1000 rev. ASTM D4060</p> <p>Adhesion to concrete (dry) Elcometer</p> <p>Deflection Temperature ASTM D648</p> <p>Density (Approx.) Premix Activator Mixed & Cured</p> <p>Elastomeric Waterproofing ASTM C836 ASTM C957</p> <p>Electrical Resistivity, Volume ASTM D257, 50% RH, 23°C, 2" disc @ 100 mil thickness</p> <p>Extension to Break, min ASTM D412</p> <p>Hardness, Shore A, min ASTM D2240 @ 77°F</p> <p>Membrane Performance Crack Bridging 10 cycles @ -15°F After heat aging</p>	<p>Membrane Weight (60 mils wet film thickness) 31 lbs./100 sq. ft.</p> <p>Mix Ratio Weight 6.2:1 Volume 7.8:1</p> <p>Mullen Burst Strength, min ASTM D751, 50 mil 150 psi</p> <p>Permeability to Water Vapor ASTM E96 Method E, 100°F, 100 mil sheet 0.03 perms</p> <p>Potable Water Service ANSI/NSF 61 Approved (UL 69Y5) to 140°F</p> <p>Recovery from 100% extension: after 5 minutes 98% after 24 hours 100%</p> <p>Service Temperature -60°F to 220°F</p> <p>Softening Point, Ring & Ball ASTM D36 >325°F</p> <p>Tear Strength ASTM D624 (Die C) 180 lbs./in.</p> <p>Tensile Strength, min ASTM D412, 100 mil sheet 1000 psi</p> <p>Weathering ASTM D822 5000 hrs.</p>
<p>1.2 mg. Loss</p> <p>350 psi</p> <p>below -60°F</p> <p>8.0 lbs./gal. 10.1 lbs./gal. 8.3 lbs./gal.</p> <p>exceeds all criteria exceeds all criteria</p> <p>1.9 x 10E14 ohm-cm</p> <p>300%</p> <p>65</p> <p>greater than 1/8" greater than 1/4"</p>	

CHEMICAL RESISTANCE

CIM 1061 Potable Water Grade Membrane is resistant to many aqueous chemicals including many of the concentrated alkalis and acids typically used within the water and waste water industries. The more common chemicals are listed below. Contact C.I.M. Industries for more details.

All information presented in this publication is believed to be accurate, but it is not to be construed as a guarantee

<i>Immersion Service</i>		<i>Secondary Containment</i>
<i>(Ambient Temperature)</i>		
Biological Oxidation Ponds	Potassium Permanganate	Hydrochloric Acid
Chlorine Solution(Saturated)	Refinery Waste water	Hydrofluoric Acid
Ethylene Glycol Solutions	Sewage Lagoons	Hydrofluosilicic Acid
Hydrochloric Acid, 10%	Sodium Bisulfite Solution	Hydrogen Peroxide, 50%
Hydrofluoric Acid, 10%	Sodium Hydroxide, 50%	Oil/Water Emulsions
Hydrofluosilicic Acid, 33%	Sodium Hypochlorite, 15%	Potassium Hydroxide
Hydrogen Peroxide, 10%	Sodium Silicate Solution, 34%	Sodium Hydroxide
Hydrogen Sulfide, Solution & Vapor	Sulfuric Acid, 30%	Sodium Silicate Solution
Potassium Hydroxide, 50%		Sulfuric Acid, 70%

of minimum performance. Test performance results are obtained in a controlled laboratory environment using procedures that may not represent actual operating environments.

**THE INFORMATION PRESENTED IN THIS PUBLICATION IS SUBJECT TO CHANGE WITHOUT NOTICE.
CONTACT C.I.M. INDUSTRIES FOR CURRENT INFORMATION.**

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GENERAL APPLICATION INFORMATION

USE 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 1061 or the substrate may become wet within 4 hours after coating. Use caution when applying CIM 1061 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 1061 should be at least 60°F (15°C) when mixed and applied. CIM 1061 may be preheated to facilitate application at low temperatures, but working time will be reduced. See C.I.M. Industries' Instruction Guide "Applying CIM Membranes 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" (IG-12) or contact C.I.M. Industries for specific recommendations. Roller, squeegee, and trowel may also be used.
- POT LIFE** About 30 minutes. Working time depends on temperature and method of application. Spray applications will be significantly shorter.
- PRIMING** Porous substrates such as wood and concrete should be primed with CIM 61 Epoxy Primer to minimize outgassing. The recoat window for CIM 61 Epoxy Primer shall be no longer than 48 hours. See CIM 61 Epoxy Primer Coating Profile 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 (4.4 gal.) of CIM 1061 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 (0.6 gala.) of CIM 1061 Activator to the pail and mix thoroughly for **3 FULL MINUTES**. The proportions are premeasured; **DO NOT ESTIMATE**. Mixing Jigs and Timers from C.I.M. Industries 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 1061 directly to a clean and dry substrate. Vertical surfaces will require multiple coats. See C.I.M. Industries' specific Substrate Instruction Guide for explicit guidelines.
- RECOATING** CIM 1061 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 membrane 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. For immersion conditions, all coats shall be applied within four hours of each other, except at joint lines.
- SPREAD RATE** **Note: Coverages are theoretical and do not account for waste, spillage, irregular surfaces, or application technique. Consult CIM 1061 coverage chart for additional coverage information.**
- CURING TIME** Before placing the membrane into potable water service or similar applications, allow sufficient time for solvents to release from the membrane. The required time for a 60 wet mil membrane is two weeks at 60°F (15°C) and varies depending upon membrane thickness and substrate temperature. For many other applications, CIM 1061 may be placed into service in 24 hours. Contact C.I.M. Industries for specific recommendations.
- DISINFECTION** CIM 1061 membrane must be washed, rinsed, and disinfected in accordance with C.I.M. Industries Instruction Guide "Decontamination or Washing Procedures for Potable Water Tank and Fish Pond Service" (IG-10).
- 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 the 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 1061 is available in mixed units of **0.76** gallons and **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		
0.76 gallon kits	6.5 lbs. per can (26 lbs. per box of 4)	1 lb. per bottle (12 lbs. per carton of 12)
5.0 gallon units	40 lbs. per pail	6.0 lbs. per jug (36 lbs. per case of 6)
Properties		
Flash Point	101°F	>250°F
Shipping Name	Coating Solution	Not Regulated
DOT Class	Class 3, UN1139, PGIII	Not Regulated
STORAGE		
Temperature	20°F to 110°F	70°F to 95°F
Shelf Life	2 years	6 months
NFPA	Class II	Non Flammable

WARRANTY & LIMITATION OF SELLER'S LIABILITY

C.I.M. Industries Inc. (C.I.M.) warrants that for a period of five (5) years from the date of shipment to the initial purchaser the products, when mixed in proper ratios for the proper length of time, (a) will not become brittle or crack and (b) will provide a water barrier. Due to application variables beyond C.I.M.'s control which may affect results, C.I.M. makes no warranty of any kind, expressed or implied, including that of merchantability, other than that the products conform to C.I.M.'s current quality control standards at time of manufacture. If breach of warranty is established, the buyer's exclusive remedy shall be repayment of the purchase price of the non-conforming CIM membrane product or, at C.I.M.'s option, resupply of conforming product to replace the non-conforming product. The buyer expressly waives any claim to additional damages, including consequential damages.

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CONTACT C.I.M. INDUSTRIES FOR CURRENT INFORMATION.

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www.cimindustries.com



23 Elm St., Peterborough, NH 03458
Tel: (800) 543-3458 (603) 924-9481
Fax: (603) 924-9482
Web site: www.cimindustries.com