



## CIM 500 | Technical Data Sheet

### TWO-COMPONENT, LIQUID APPLIED, COLD-APPLIED URETHANE WATERPROOFING COATING

*CIM Industries has over 50 years of proven performance in demanding environments. It remains flexible and resilient and provides exceptional service in a broad range of applications.*

| DESCRIPTION                                                                                                                                                                                                                                                                                                                  | ADVANTAGES                                                                                                                                                                                                                                                                                                                                                                                          | APPROVALS & STANDARDS                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CIM 500 is a two-component, liquid applied urethane coating formulated for buried, non-UV exposed, and below-grade waterproofing applications. It adheres to most construction materials to form a permanent, seamless barrier to water, and is self-leveling and self-flashing for efficient installation in complex areas. | <ul style="list-style-type: none"><li>• Cold, liquid applied, self-leveling coating</li><li>• Adheres to most materials used in construction</li><li>• Easily applies to complex areas including penetrations and curbs</li><li>• Durable; withstands foot traffic</li><li>• Complies with the toughest VOC regulations</li><li>• Self-flashing; saving time and materials at transitions</li></ul> | <ul style="list-style-type: none"><li>• VOC Compliant – 97 g/l</li><li>• ASTM C836 – Elastomeric Waterproofing (exceeds all criteria)</li><li>• ASTM C957 – Elastomeric Waterproofing (exceeds all criteria)</li><li>• ICC-ES Below Grade Waterproofing (AC29, AC115)</li><li>• UPC Shower Pan Liner – ANSI A118.10 (Load Bearing, Bonded, Waterproof Membrane)</li></ul> |

## INSTALLATION

### Surface Preparation

- 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.

### Substrate Compatibility

- **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 contaminants.
- **WOOD:** Substrate must be clean, dry and free of surface contamination.
- **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.
- **PREVIOUS COATINGS AND LININGS:** CIM 500 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 and lining as a substrate for CIM.
- **EARTH:** Use CIM Scrim.

## APPLICATION CONDITIONS

|                              |                                                                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ambient Temperature*</b>  | 50°F minimum (10°C)                                                                                                                                          |
| <b>Surface Temperature*</b>  | 50°F minimum (10°C), must be 5°F (3°C) above the dew point                                                                                                   |
| <b>Mix Ratio</b>             | 9.2:1 by weight                                                                                                                                              |
| <b>Mixing Time</b>           | 3 full minutes with power mixer (1/2" drill and eight-inch mud mixer). DO NOT THIN OR HAND MIX. DO NOT ESTIMATE PROPORTIONS AS THEY ARE ALREADY PREMEASURED. |
| <b>Working Time*</b>         | 35-45 minutes                                                                                                                                                |
| <b>Film Thickness</b>        | 60 mil dry minimum                                                                                                                                           |
| <b>Coverage Rate</b>         | Refer to CIM 500 Coverage Chart for coverage rates                                                                                                           |
| <b>Time to Recoat *</b>      | 2 Hours                                                                                                                                                      |
| <b>Color and UV Exposure</b> | CIM 500 is initially shiny black, turning dull when exposed to direct sunlight. UV exposure of CIM 500 should be limited to no longer than 180 days.         |

\*These times are typical when the temperature is 77°F (25°C), times will vary with differing temperatures.

\*\* **DO NOT APPLY WHEN THE SUBSTRATE OR AMBIENT TEMPERATURE IS RISING OR COATING IS IN DIRECT SUNLIGHT.** CIM should be at least 60°F (15°C) when mixed and applied. CIM 500 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

Roller, brush, notched squeegee, trowel, or spray equipment

## PROPERTIES

| Property                                                     | Test Method                         | Typical Value                    |
|--------------------------------------------------------------|-------------------------------------|----------------------------------|
| <b>Abrasion Resistance</b>                                   | ASTM D4060, CS-17 Wheel, 1000 rev   | <5 mg loss                       |
| <b>Adhesion to Concrete (dry)</b>                            | ASTM D7234                          | >350 psi                         |
| <b>Extension to Break</b>                                    | ASTM D412                           | 200%                             |
| <b>Hardness, Shore A</b>                                     | ASTM D2240                          | 70                               |
| <b>Liner Performance – Crack Bridging (After heat aging)</b> | ASTM C836                           | greater than 1/4"                |
| <b>Permeability to Water Vapor</b>                           | ASTM E96 Procedure B, 100 mil sheet | 0.03 perms                       |
| <b>Service Temperature</b>                                   |                                     | -20°F to 180°F                   |
| <b>Tear Strength</b>                                         | ASTM D624 (Die C)                   | 140 lbf/in                       |
| <b>Tensile Strength</b>                                      | ASTM D412                           | 700 psi                          |
| <b>VOC</b>                                                   | EPA Method 24                       | 97 g/l                           |
| <b>Solids by Volume</b>                                      |                                     | 89% (1428 dry mil x sq ft / gal) |

## PACKAGING

|                          |                       |
|--------------------------|-----------------------|
| <b>Product</b>           | <b>4.8 Gallon Kit</b> |
| <b>CIM 500 Premix</b>    | 5-gal pail (41 lb)    |
| <b>CIM 500 Activator</b> | 1/2-gal jug (4.4 lb)  |

## HANDLING & SAFETY INFORMATION

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**CLEANUP:** 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.

**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 and other chemical ingredients. Adequate health and safety precautions should be observed during the storage, handling, application and curing. Refer to C.I.M. Industries' Safety Data Sheets for further details regarding the safe use of this product.

## WARRANTY & LIMITATION

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Contact CIM Industries for specific recommendations and instruction guides.

### 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.

### DISCLAIMER

The information provided herein is for general product selection purposes only. It does not constitute specifications, performance data, or any representation or warranty regarding the product's fit, form, function, merchantability, or fitness for a particular purpose. This information shall not be relied upon for engineering, design, or application decisions. Seller expressly disclaims all implied warranties, including merchantability and fitness for a particular purpose.

All responsibility for determining the suitability of the product for any intended use rests solely with the purchaser. The purchaser assumes all risks associated with such use, including compliance with applicable laws, regulations, and standards.

Under no circumstances shall the seller be liable for any loss, damage, cost, expense, or any incidental, indirect, special, punitive, or consequential damages of any kind, including but not limited to lost profits, business interruption, or claims by third parties, arising from or related to the use of, or inability to use, the product, regardless of the legal theory asserted.

No oral or written statements, marketing materials, or other communications shall create or modify any warranty or obligation. The only applicable warranty and terms of sale are those expressly stated in Seller's official Terms and Conditions of Sale, which exclusively govern all transactions and contain the Seller's limited warranty. No other terms, conditions, or representations shall apply.