



CIM 1000 Trowel Grade | Technical Data Sheet

TWO-COMPONENT, LIQUID APPLIED, CHEMICALLY THICKENED URETHANE ELASTOMERIC 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 1000 Trowel Grade (TG) is a two-component, liquid applied, chemical and corrosion resistant urethane elastomeric coating, chemically thickened to allow trowel application with minimum sag. It offers the same performance as CIM 1000, is approved for potable water contact, and can be applied up to 250 mils on vertical surfaces in a single coat.	• Ideal for coating concrete; forms a tough elastomeric coating able to bridge cracks and fill joints • NSF/ANSI/CAN 61 certified for potable water contact up to 180°F • Chemically thickened for application to vertical surfaces, cold joints, cant strips, and cracks • Used for repairs and forming flashings and seals around pipes and roof penetrations • Can be applied to complex tanks with multiple penetrations, sumps, and irregular shapes • Adheres to concrete, steel, glass, wood, and most coatings • Excellent wear and abrasion service; UV stable • Available in easy-to-use dual cartridges • Environmentally sound; complies with the toughest VOC standards	• VOC Compliant – 88 g/l • ASTM C836 – Elastomeric Waterproofing (exceeds all criteria) • ASTM C957 – Elastomeric Waterproofing (exceeds all criteria) • NSF/ANSI/CAN 61 – Potable Water Contact (to 180°F); UL File No. MH17445 • UL 790 Class A – Roofing Systems (Fire Rating) • UPC Shower Pan Liner – ANSI A118.10 (Load Bearing, Bonded, Waterproof Membrane) • Green Roof / Root Barrier – FLL 2002

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 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. Must be plural component spray applied.

APPLICATION CONDITIONS

Ambient Temperature	50°F minimum (10°C)
Surface Temperature	50°F minimum (10°C), must be 5°F (3°C) above the dew point
Material Temperature	Refer to CIM 1000 TG Coverage Chart for coverage rates
Mix Ratio	6.1:1 by weight
Mixing Time	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.
Working Time*	20 minutes
Film Thickness	60 mil dry minimum
Coverage Rate	Refer to CIM 1000 Trowel Grade Coverage Chart for coverage rates
Time to Recoat *	4 Hours
Color and UV Exposure	CIM is initially shiny black, turning dull over 3 to 6 months when exposed to direct sunlight.

*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 1000TG 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

Brush, trowel, or with a plural component spray system

PROPERTIES

Property	Test Method	Typical Value
Abrasion Resistance – Wt. Loss	ASTM D4060, CS-17 Wheel, 1000 rev	1.2 mg Loss
Adhesion to Concrete (dry)	ASTM D7234	>350 psi
Extension to Break	ASTM D412	300%
Hardness, Shore A	ASTM D2240	60
Liner Performance – Crack Bridging (After heat aging)	ASTM C836	greater than 1/4"
Permeability to Water Vapor	ASTM E96 Method E, 100°F, 100 mil sheet	0.03 perms
Salt Spray	ASTM B117	Pass 2000 hrs.
Service Temperature		-60°F to 220°F
Tear Strength	ASTM D624 (Die C)	150 lbf/in
Tensile Strength	ASTM D412	800 psi
VOC	EPA Method 24	88 g/l
Weathering	ASTM D822	Pass 5000 hrs.
Solids by Volume		88% (1413 dry mil x sq ft / gal)

PACKAGING

Product	0.8 Gallon Kit	4.5 Gallon Kit
CIM 1000 TG Premix	1-gal can (5.7 lb)	5-gal pail (31.9 lb)
CIM 1000 TG Activator	16-oz bottle (0.9 lb)	1/2-gal jug (5.2 lb)

HANDLING & SAFETY INFORMATION

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, amine compounds 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

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.