

CIM ECO 1000

High Performance Coatings and Linings

Description

CIM ECO 1000 is a tough, durable elastomeric coating that is formulated to perform in the most demanding environments. This two-component, liquid applied urethane coating bonds strongly to most construction materials to form a permanent, seamless physical barrier to water and chemicals. CIM ECO 1000 provides the superior long-term protection of heritage CIM products, without the use of solvent or VOCs. Typical applications include but are not limited to waterproofing, corrosion protection, and containment.

Advantages

- Chemically stable and physically durable in extreme environments; resistant to abrasion, weather, and UV exposure
- Engineered balance between tensile strength and elongation, results in exceptional long-term waterproofing and crack bridging performance
- Simple and safe cold, liquid application
- Excellent self-leveling properties on horizontal applications
- Easy application to complex shapes, multiple penetrations, tie-ins, repairs and/or existing CIM systems
- Excellent adhesion to many substrates including common construction materials & most geotextiles
- Impervious to water & most aqueous chemicals
- Long term performance under demanding conditions
- Solvent free, VOC free
- Optional fabric reinforcement can be used, if desired
- Supplied in pre-measured, premix & activator units with sufficient mixing space for “in-can” mixing

Installation

Substrate Compatibility

CIM ECO 1000 can be used on the following substrates:

- Concrete
- Steel and other metals
- Wood
- Earth

Surfaces must be clean, dry, sound, and free of oils, dirt, dust, and debris. Additional surface preparation and primer may be required. Please see the CIM application guides for specific instructions, installation requirements, and recommendations.

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	60°F to 100°F (15°C to 38°C)
Mix Ratio	4.18:1 by weight
Mixing Time	3 full minutes with power mixer (1/2" drill and eight-inch mud mixer)
Working Time*	25-30 minutes
Film Thickness	60 mil dry minimum
Coverage Rate	26.7 ft ² /gal @ 60 mils
Time to Recoat *	Within 4 hours

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

Equipment

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

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Properties

Physical Properties

Property	Test Method	Typical Value
Adhesion to Concrete (dry)	ASTM D7234	>350 psi
Appearance	Visual	Initially shiny black, matte black after 3-6 months UV exposure
Extension to Break	ASTM D412	330%
Hardness, Shore A	ASTM D2240 @ 77°F	70
Liner Performance (Low Temperature Crack Bridging)	ASTM C836 10 cycles @ -15°F	Greater than 1/8"
Minimum Thickness		60 wet mils
Permeability to Water Vapor	ASTM E96-B (100 mil)	<0.05 perms
Water Absorption	ASTM D570 Long Term	<0.5%
Tear Strength	ASTM D624 (Die C)	150 lbs./in.
Tensile Strength	ASTM D412	900 psi
Weathering	ASTM D822	Pass 5000 hours
Indoor Emissions	CDPH 01350	Pass
VOC	EPA method 24	0 g/l

References

CIM ECO 1000 meet the following:

- LEED V4.1
- ASTM C836

Handling

Packaging

Product	Packaging	Weight	Volume
CIM ECO 1000 Premix	5-gal metal pail	31.3lb. (14.2 kg)	3.85 gal (14.6 L)
CIM ECO Activator	3-L plastic jug	7.5 lb. (3.4 kg)	0.75 gal (2.8 L)

Cleanup

Use solvent for clean-up of uncured material. Cured material is very difficult to remove.

Precautions

Avoid contamination with water or moisture. Keep all pails tightly closed until ready for use. Do not apply in wet weather or when rain is imminent. Mix only what can be applied within the working time, excess material in the pail can exotherm to high temperatures.

Please see the CIM ECO 1000 Premix and the CIM ECO Activator safety data sheets for detailed safety and storage information.

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.