
COATING PROFILE

DESCRIPTION CIM 61BG Epoxy Primer is a two component high solids epoxy coating formulated as a primer for porous and non-porous surfaces such as concrete and metal.

ADVANTAGES CIM 61BG Epoxy Primer can be used to prime a variety of surfaces.

- May be used as a primer for freshly blasted metal to prevent flash rust from occurring, prior to coating with CIM.
- May be used as a primer for properly prepared concrete to minimize the effects of outgassing.
- Approved for contact with potable water in accordance with ANSI/NSF 61.

SURFACE PREPARATION

GENERAL: Substrates must be **clean and dry** with no oils, grease or loose debris. 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 contaminants.

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.

OTHER METALS: SSPC-SP1 solvent clean and abrasive blast to roughen and degloss the surface.

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

COLOR CIM 61BG Epoxy Primer is a two component epoxy coating consisting of: CIM 61BG Epoxy Resin which is buff, and CIM 61BG Hardener which is amber.

MIXING RATIO 4 Parts Resin: 1 Part Hardener by Volume

SOLIDS BY VOLUME 80% mixed (1280 dry mil x sq. ft./gal.) (ASTM D 2697-7 days)

DENSITY CIM 61BG Resin approximately 13.39 lbs./gal.
CIM 61BG Hardener approximately 8.17 lbs./gal.

THEORETICAL COVERAGE 320 sq. ft./gal. (about 5 wet mils). Irregular surfaces, waste, spillage, and application technique effect actual coverage.

VOC (EPA 24) 170 g/l (1.41 lb./gal.) CIM 61BG Epoxy Primer complies with the toughest VOC regulations.

GENERAL APPLICATION INFORMATION

USE FOR PROFESSIONAL USE ONLY.

PRECAUTIONS Mixing equipment and surfaces where material is applied must be **ABSOLUTELY DRY**. Do not apply in wet weather, when rain is imminent or when the surface may become wet before the coating is dry. Strictly observe mixing, induction times and substrate temperature requirements.

TEMPERATURE Throughout the curing period, the surface should be minimum 50°F (10°C) AND minimum 5°F (3°C) above the dew point. Contact C.I.M. Industries for lower temperature application.

EQUIPMENT Air Spray, Airless Spray, Brush, or Roller ($\frac{3}{8}$ " or $\frac{1}{2}$ " synthetic nap).

Equipment	Air Spray	Airless
	(DeVilbiss, JGA, or MBC)	45:1
Air Hose	$\frac{1}{2}$ "	N/A
Fluid Hose	$\frac{1}{2}$ "	$\frac{3}{8}$ " to $\frac{1}{2}$ "
Spray Gun	DeVilbiss MBC-510	
Tip	E or D	0.021" to 0.027"
Cap	704	N/A
Atomizing Pressure	up to 100 psi	1500 to 3000 psi
Pot Pressure	10 to 20 psi	N/A

POT LIFE About 3.5 hours at 77°F (25°C).

MIXING Thoroughly mix each of the two components separately: CIM 61BG Epoxy Resin and CIM 61BG Hardener. **DO NOT HAND MIX**. Use a power mixer. Consistency should be uniform and smooth with no settled pigments remaining at the bottom. Add entire contents of each component and thoroughly mix until color and consistency are uniform. **ALLOW A MINIMUM OF 15 MINUTES INDUCTION TIME FOR MIXED PRIMER BEFORE APPLICATION.**

The two components must be combined in proper ratios for this product to set up properly. Failure to adequately mix each component separately to achieve a uniform dispersion or failure to blend to the proper volume proportion will result in a failure of the coating to perform adequately.

DO NOT THIN. Allow cold material to warm to room temperature before attempting to lower viscosity, warm mixed coating before applying. Do not heat open containers above the materials flash point of 80°F (27°C). Do not exceed 110°F (43°C).

APPLICATION

PRIMER: Apply CIM 61BG Epoxy Primer at a coverage rate of **5 to 10 wet mils** per coat. For best results apply primer when the substrate is in a temperature declining mode and not in direct sunlight. A uniform coating free of holidays or pinholes is necessary to minimize outgassing effects during the application of the CIM membrane to porous surfaces such as concrete. Surfaces may require additional coats to achieve a pinhole free finish.

GENERAL APPLICATION INFORMATION (Continued)

APPLICATION (Continued)

MEMBRANE: Allow CIM 61BG Epoxy Primer to dry at least 8 hours at 70°F (21°C) to permit solvent loss. Membrane over coating prior to solvent loss may result in bubble formation in the membrane. Prior to membrane application, test for the presence of amine blush by testing the pH of the epoxy. The pH of the epoxy should be 7-8. If the pH is higher than 8, solvent wipe with methyl ethyl ketone until the pH is within the recommended range. Application of CIM membrane to epoxy primer with a high pH will result in poor adhesion. When applied to porous surfaces, CIM 61BG Epoxy Primer will greatly reduce the effects of outgassing, but it may not completely prevent the occurrence. CIM membranes and primer should be applied following C.I.M.'s published written instructions including application of the membrane when substrate temperature is declining.

RECOATING The recoat window for applying CIM membrane to CIM 61BG Epoxy Primer shall be no longer than 48 hours.

DRYING TIME Allow at least 8 hours between coats or applying a CIM membrane coating. If more than 48 hours has past since the application of CIM 61BG Epoxy Primer, or the CIM 61BG Epoxy Primer is otherwise contaminated use one of the following procedures:

1. Test surface for pH and check for contaminants. Solvent wipe with methyl ethyl ketone to clean surface and reapply CIM 61BG Primer
2. Test surface for pH and check for contaminants. Solvent wipe with methyl ethyl ketone to clean surface. Abrade the existing CIM 61 BG Primer. Apply CIM Bonding Agent and apply CIM membrane. If the CIM 61BG Primer is damaged during abrading. An additional application of Primer may be necessary to insure a monolithic primer application.

CLEAN UP Clean all equipment immediately after use with xylene or MEK. Thoroughly flush spray equipment before coating has had a chance to set up.



CIM 61BG EPOXY PRIMER

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.

SAFETY INFORMATION This product contains ingredients which are considered to be hazardous. Solvent exposure may cause dizziness, headache or nausea. Prolonged exposure may cause permanent brain or nervous system damage. Adequate health and safety precautions should be observed during storage, handling, application and clean-up. Refer to C.I.M. Industries' Material Safety Data Sheets for further details regarding the safe use of this product.

PACKAGING CIM 61BG Epoxy Primer is packaged in 1 gallon units consisting of 0.8 gallon of CIM 61BG Resin and 0.2 gallon of CIM 61BG Hardener and 5 gallon units consisting of 4 gallons of CIM 61BG Resin and 1 gallon of CIM 61BG Hardener. Proper volumes of each must be mixed thoroughly prior to application.

CIM 61BG (5 gallon unit)

CIM 61BG (4-1 gallon kit)

SHIPPING

Weights 66 lbs per 5 gallon unit

55 lbs per box (4-1 gallon kits)

Properties

Flash Point 80°F (27°C)

80°F (27°C)

Shipping Name Coating Solution

Corrosive Liquid, Flammable, n.o.s.

DOT Class Class 3, UN1139, PG III
polyamines)

Class 8, UN2920, PGII, (xylene,

STORAGE CIM 61BG Epoxy Resin

CIM 61BG Hardener

Temperature 40°F to 110°F (5°C to 43°C)

40°F to 110°F (5°C to 43°C)

Shelf Life 24 months

24 months

NFPA Class IC

Class IC

WARRANTY & LIMITATION OF SELLER'S LIABILITY

C.I.M. Industries Inc. (C.I.M.) warrants only that CIM 61BG Epoxy Primer conforms to C.I.M.'s current quality control standards at the time of manufacture. Due to application variables beyond C.I.M.'s control which may affect results, C.I.M. makes no other warranty of any kind, expressed or implied, including that of merchantability. If breach of warranty is established, the buyer's exclusive remedy shall be repayment of the purchase price of the non conforming CIM 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.

THE INFORMATION PRESENTED IN THIS PUBLICATION IS SUBJECT TO CHANGE WITHOUT NOTICE.

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

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