

CIM 61TN AND 61 TN-RC

EPOXY PRIMER

OVERVIEW

DESCRIPTION CIM 61TN Epoxy Primer is a two component high solids epoxy coating used as a primer for porous and non-porous surfaces such as concrete and metal. A rapid cure version, CIM 61 TN-RC, is also available and should be used when air and surface temperatures are below 50°F and above 35°F during application and cure.

ADVANTAGES CIM 61TN and 61TN-RC 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 more information.

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 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.

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 61TN and 61TN-RC Epoxy Resin are yellow.
CIM 61TN and 61TN-RC Hardener are light brown.
Mixed and Cured: tan.

MIXING RATIO 1 Part Resin: 1 Part Hardener by Volume

SOLIDS BY VOLUME 70% mixed (1123 dry mil x sq. ft./gal.) (ASTM D 2697-7 days)

DENSITY CIM 61TN and 61TN-RC Resin approximately 13.69 lbs./gal.
CIM 61TN Hardener approximately 12.52 lbs./gal.
CIM 61TN-RC Hardener approximately 12.46 lbs./gal.

VOC (EPA 24) 240 g/l (2.0 lb./gal.)

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GENERAL APPLICATION INFORMATION

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 cured. Strictly observe mixing, induction times and substrate temperature requirements.

TEMPERATURE Throughout the application and initial curing period, the surface should be minimum of **5°F (3°C) above the dew point**.

Use CIM 61TN hardener when air and surface temperatures are above 50°F.

Use CIM 61TN-RC rapid cure hardener when air and surface temperatures are below 50°F.

DO NOT USE if air and surface temperatures are below 35°F.

Maintain material temperature of 60°F to 90°F prior to mixing.

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

Equipment	Airless Spray
Pump	30:1 pump ratio at 60-100 psi operating air pressure
Spray Gun Tip	.015 to .017 tip with 60 mesh filter

POT LIFE About 5 hours at 77°F (25°C).

MIXING Thoroughly mix each of the two components separately: **DO NOT HAND MIX**. Use a power mixer. Consistency should be uniform and smooth with no settled pigments remaining at the bottom. Pour entire contents of each component into a clean 5 gallon pail and thoroughly mix until color and consistency are uniform. **ALLOW A MINIMUM OF 15 MINUTES INDUCTION TIME 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.**

APPLICATION

PRIMER: Apply primer at a coverage rate of **5 to 10 wet mils** per coat. When coating porous substrates 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 coating to porous surfaces such as concrete. Surfaces may require additional coats to achieve a pinhole free application.

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

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GENERAL APPLICATION INFORMATION (Continued)

CIM COATING: Allow the primer to cure at least 12 hours at 70°F (21°C) to permit solvent loss. Failure to allow sufficient time for solvent loss may result in the formation of solvent blisters or poor adhesion to CIM. Prior to CIM coating application, test for the presence of amine blush by testing the pH of the epoxy primed surface. The pH 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 coating to epoxy primer with a high pH will result in poor adhesion. When applied to porous surfaces, the primer will greatly reduce the effects of outgassing, but it may not completely prevent the occurrence. CIM coatings and the primer should be applied following C.I.M.'s published instructions including application of the coating when substrate temperature is declining.

RECOATING Minimum/Maximum recoat is 12hrs/72hrs @ 70°F.

Allow at least 12 hours cure time between coats or before applying the CIM coating . If the primer cures for more than 72 hours, or the 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 re-apply the Primer if within 30 days.
2. Test surface for pH and check for contaminants. Solvent wipe with methyl ethyl ketone to clean surface. Abrade the existing primer. Solvent wipe with MEK to clean surface. Apply CIM Bonding Agent and apply CIM coating or lining. If the 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.

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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.**

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 61TN and 61TN-RC Epoxy Primer are packaged in 2 gallon kits consisting of 1 gallon of Resin and 1 gallon of Hardener.

SHIPPING	61TN and 61TN-RC Epoxy Resin	61TN or 61TN-RC Epoxy Hardener
Weights		
1.0 gallon units	56 lbs/box (4-1 gal cans)	52 lbs/box (4-1 gal cans)
Properties		
Flash Point	24°F (-4°C)	24°F (-4°C)
Shipping Name	Coating Solution	Coating Solution
DOT Class	Class 3, UN1139, PG III	Class 3, UN1139, PG III

STORAGE	61TN and 61TN-RC	61TN or 61TN-RC
Temperature	40°F to 110°F (5°C to 43°C)	40°F to 110°F (5°C to 43°C)
Shelf Life	1.5 years	1.5 Years
NFPA	Class IC	Class IC

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