



GLOBAL Encasement, Inc.

**Installation Guide Specification
For Mold And Mildew
09940 GEI – Your Last Coat™**

I. GENERAL

1.01 SUMMARY

- A. Provide labor, materials, equipment and supervision necessary to install (spray-apply, brush or roller) GLOBAL Encasement, Inc. systems outlined in this specification.
- B. GLOBAL Encasement, Inc.'s application instructions for each product used are considered part of these specifications and should be followed at all times.

1.02 SUBMITTALS

- A. Submit reports and literature verifying compliance with fire ratings, physical properties or approvals earned by specified materials.
- B. Submit material safety data sheets on all materials.

1.03 QUALITY ASSURANCE

- A. Supplier Qualifications: GLOBAL Encasement, Inc. products, as supplied by GLOBAL Encasement, Inc., shall be approved for use on the project.
- B. The product manufacturer shall have been in business for a minimum of twenty-one (21) years.
- C. Applicator Qualifications: GLOBAL Encasement, Inc. can approve the application contractor. GLOBAL Encasement, Inc.'s written verification of applicator approval shall be required.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Containers and packaging: Deliver materials in original sealed containers, clearly marked with Global Encasement, Inc.'s logo, brand name, type of material and production lot numbers.
- B. Storage: Store materials between 40°F and 90°F with careful handling to prevent damage to products. Do not store for long periods in direct sunlight, at excessive temperatures or at temperatures below freezing.
- C. Protection: Protect all materials from damage during transit, handling, storage and installation.
- D. Verify dates of manufacture and confirm that material is within one-year shelf life.

1.05 PROJECT CONDITIONS

- A. Environmental Requirements Conditions.
 - 1. These minimum recommendations for material coverage are for ideal conditions. The number of gallons to coat 100 square feet may need to be increased due to uneven application, rough surface texture, heat and wind conditions while spraying or applying and other variables.
 - 2. Do not apply materials unless surface to receive GLOBAL Encasement, Inc. system is dry and materials are applied over a test area to ensure proper adhesion.
 - 3. Install all material in strict accordance with all published safety or applicable regulations of GLOBAL Encasement, Inc. and/or local, state, and/or federal agencies that have jurisdiction.

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4. The entire system shall be fully adhered to the surface on which it is applied.
5. Do not proceed with application of coating or sealing materials when surface temperature is less than 50°F. No coating system shall be applied if precipitation or freezing temperatures are expected within 72 hours.
6. Instructions for use of all GLOBAL Encasement, Inc. materials and application equipment should be read and followed at all times.

II. PRODUCTS

2.01 GLOBAL Encasement, Inc. Systems

- A. The **Your Last Coat™** system is an acrylic, elastomeric, spray, brush or roller-applied GLOBAL Encasement, Inc. system manufactured by GLOBAL Encasement, Inc. (GEI).
 1. All **Your Last Coat™** materials shall be warranted to be heavy-bodied (66.0% solids content), from GLOBAL Encasement, Inc. and shall be long lasting, highly-pure (zero VOC) materials that remain flexible, chalk resistant and resist cracking, peeling, algae and fungus that can cause future indoor air quality concerns.
 2. To allow for building movement without cracking or disturbing fibrous materials, coating systems shall have passed testing to ASTM standards for adhesion, permeability, aged flexibility and with aged elasticity for the encasement system of over 250%.
 3. Coatings shall be Class A Fire Rated, water-based, non-toxic, safe and easy to use, contain no hazardous ingredients by OSHA definition, comply with all known building codes and be non-flammable.
 4. Coatings shall have independent third-party accredited toxicological report stating: "There is no toxicological basis for limiting occupancy of a dwelling unit, or restricting entry of any resident including pregnant women and children under six years of age, to dwelling units during the application of your encapsulant."
 5. Coating materials shall have zero VOC (Volatile Organic Compound) content.
 6. Coating materials shall not release health threatening toxic smoke and fumes in a fire and shall comply with all known building codes.
- B. Coating Material shall have passed the following testing standards:
 1. ASTM E-119 fire tests - demonstrating that applying a multi-layer GLOBAL Encasement, Inc. system over fireproofing does not adversely affect the fire proof rating of the fireproofing (3 hour test).
 2. UPITT Combustion Toxicity Test proving nothing toxic is released in a fire.
 3. ASTM E-84 and E-162 fire tests for "Class A" – Surface Flammability and Burning Characteristics (Flame Spread = 0, Smoke Developed = 5). This is equal to NFPA 255, UL No. 723, ANSI 2.5 and U.B.C. 42-1.
 4. Underwriters Laboratories® 790 Class "A" Ratings TGFU #R15397
 5. "Pull-off Adhesion" Test E-736 at 9,950 lbs. per square foot (69.1 lbs. per square inch).
 6. ASTM D-1653 and E-96 "Water Vapor Permeability" (showing the rate that water vapor can pass through the system).
 7. Impact Resistance, "Tensile Strength" exceeds 150 psi; "Elongation" exceeds 250%.

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8. System is Mildew Resistant, Impact Resistant, Scrub Resistant, Non-Yellowing, Non-Chalking, highly Blister Resistant, Rust Resistant, highly Chemical Resistant and remains flexible after 1000 hour ASTM Accelerated Weather testing.
9. Water-Based materials (zero VOC) Volatile Organic Content of **PrepLESS Primer™** and **Your Last Coat™**.
10. Encasement systems shall comply with standards established by WR Grace for use over fireproofing materials.
11. Materials comply with applicable standards for installation on interior and/or exterior surfaces of a building.
12. Fully comply with the U.B.C. codes for installing encasement systems in elevator shafts and large air plenums or ducts.
13. Encasement systems provide additional waterproofing protection.
14. Materials are suitable for use over Transite siding.

2.02 RELATED MATERIALS

Elastomeric architectural sealants, caulking compounds, primers, and similar materials shall be approved by GLOBAL Encasement, Inc. All materials used shall be applied in accordance with GLOBAL Encasement, Inc.'s recommendations.

2.03 EQUIPMENT RECOMMENDATIONS

GLOBAL Encasement, Inc. materials are prescreened at the factory and can be applied with nylon bristle brushes, roller, or airless spray equipment. Roller nap size will depend on the substrate being encased; ½ inch nap to 1¼ inch is recommended. Airless piston type spray equipment may also be used for application. Equipment selection will depend on the size and nature of the encasement project.

Recommended airless piston-type spray equipment should have at a minimum 3000-psi, 3:1 ratio and a ¾-gallon capacity.

- A. **Graco** - information line is (800) 690-2894.
- B. **Titan Tool Inc.** - information line is (800) 526-5362.
- C. **Equipment Accessories:** Hose: 3/8 inch (9.53 mm) inside diameter (minimum), 1/2 inch (minimum) on long runs.
Guns: Graco Silver or Golden Hydra-mastic guns.
Spray Tips: **Your Last Coat™**
Use self-cleaning reversible spray tip size 0.019 to 0.035 (.021 is most often used).

Note: For alternative equipment recommendations consult the spray equipment manufacturer directly.

III. EXECUTION

3.01 MANUFACTURER'S INSTRUCTIONS

Compliance: Comply with GLOBAL Encasement, Inc.'s product data, including product technical bulletins and product guide specification instructions.

3.02 PREPARATION

- A. Protect floors, windows, mechanical items or any areas not to be coated to protect from over-spray or dripping.
- B. All surfaces to be encased must be free of moisture.

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- C. GLOBAL Encasement, Inc. coatings being applied over potential surface contaminants, such as glossy, greasy, dirty, or otherwise questionable surfaces, should be tested for surface compatibility. When applying **PrepLESS Primer™** over dirty surfaces back rolling will pick up any loose material and embed it in the encasement. Also, this procedure will provide better adhesion.
- D. If product spray should occur on any surface not to be coated, wipe immediately to avoid staining or permanent adhering.

3.03 APPLICATION

The following are general application guidelines. For site specific recommendations, please contact our office at: (800) 266-3982

Under no circumstances are GLOBAL Encasement, Inc.'s products to be diluted with water, solvents or paint additives. Diluting GLOBAL Encasement, Inc. materials voids all warranties with the following exceptions:

MPE™ Multi-Purpose Encapsulant:

This product has been fully tested up to a dilution rate of 10:1.

PremeClean™ Industrial Cleaner Concentrate:

This product has been tested up to a dilution rate of 50:1.

- A. Application first seals and stabilizes the surfaces, then produces a durable, long-lasting protective jacket over the aging paint. The application of a test area is recommended.
- B. For Metal Surfaces that rust:
 - 1. Use **PremeClean™** Industrial Cleaner, our non-corrosive, biodegradable, and water-soluble product to prepare surfaces using wet removal technique to remove all loose and flaking paint from the metal surfaces, wipe and rinse clean, allow to dry.
 - 2. Apply one coat of **R.I.P.™ Rust-Inhibiting Primer** (corrosion inhibitor) directly over all metal surfaces; apply two coats over rusted areas. Apply **R.I.P.™ Rust-Inhibiting Primer** at a coverage rate of 100 to 150 square foot per gallon, per coat (12 - 16 wet mils). This will dry to 4 - 7 dry mils of primer per coat. Allow to dry thoroughly before applying second coat.
 - 3. Apply **Your Last Coat™** over dried primed surfaces. Apply at a coverage rate of 126 square feet per gallon per coat (14 - 18 wet mils) to produce 7 dry mils per coat. If there is no rust and the paint is intact, use **Your Last Coat™ TopCoat** directly.
- C. For Highly Weathered Wood and Damaged, Loose and Flaking Paint:
 - 1. Use **PremeClean™** Industrial Cleaner, a non-corrosive, biodegradable, water-soluble product to prepare surfaces. Use wet removal technique to remove all excessive loose and flaking paint from the surfaces, break all bubbles, rinse clean and allow to dry.
 - i. Dust-free techniques for removing excessive loose damaged paint is to apply a thin coat of **PrepLESS Primer™** (as described in step 2 below) then selectively scrape off only the excessively loose paint. Then complete application of **PrepLESS Primer™** as in step 2 below.
 - 2. Apply two coats of **PrepLESS Primer™** directly over all surfaces including over damaged, loose and flaking paint or bare spots. The first coat of **PrepLESS Primer™** can be spray, brush, roller or cloth applied to a thin coat (3 to 6 wet mils =1 to 3 dry mils) over all surfaces.

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- i. **Use a wet mil gauge to determine proper wet coating thickness to yield the desired dry mil thickness.** Next, before a skin forms on the coating, go over the surface with a roller to push the material into any cracks or voids in the surface. This process will also help to embed any loose material into the encasement system. Thirty to sixty (30 to 60) minutes later, apply the balance of the **PrepLESS Primer™** materials and work onto the loose and flaking areas. Apply at a coverage rate of 80 to 100 square foot per gallon, approximately 7-9 dry mils or 15-20 wet mils (use more **PrepLESS Primer™** material over rough and bare areas). Allow primer coat to dry thoroughly before over-coating.
 - ii. **Note: PrepLESS Primer™ goes on milky white and dries clear, forming a flexible membrane that remains tacky when dry.**
 3. Where caulking is required to produce a smooth surface and/or to seal around windows, doors and seams, use compatible **Globe Caulk™** (trowelable grade or in tubes). Patch damaged areas as needed. Allow to dry before applying the topcoat.
 4. Next, apply one or two coats of **Your Last Coat™** over all the dry primed surfaces. Apply at a coverage rate of 126 square feet per gallon per coat (13 wet mils). This will produce 7 dry mils per coat. Allow to dry before applying second coat and let the system dry overnight before removing tape. **Your Last Coat™** dries to form a matte finish surface.
 5. To prevent damage to the coatings when removing all plastic and masking tape, use a utility knife to cut masking at painted edges. Prompt cleanup of equipment is recommended. Cleanup is with warm soapy water.
- D. **PrepLESS Primer™** is a high solid engineered coating material (45% solids content - by volume). **PrepLESS Primer™** can penetrate and stabilize unstable surfaces. **PrepLESS Primer™** has excellent adhesion and adheres to most surfaces. A test area should be used to verify surface compatibility on any questionable surfaces.
- Allow to dry 2 to 24 hours before applying topcoats.
(The environment in a containment area can extend dry times.)
- Note: **PrepLESS Primer™** goes on milky white and dries clear.
- E. **Globe Caulk™** (trowelable grade) can be used to bridge and seal cracks up to a ¼" thick and to fill in shallow voids. On surfaces where **Globe Caulk™** is used directly over unsealed substrates, a test area should be used prior to application.
- F. **Your Last Coat™** is a high solids content material. When applying **Your Last Coat™**, (by brush, roller, or spray), **use a wet mil gauge to determine proper wet coating thickness to yield the desired dry film thickness.** Apply **Your Last Coat™** in two passes with the second pass perpendicular (at 90° angle) to the first pass. Back-rolling **Your Last Coat™** on rough surfaces can help to fill visible voids while conserving the use of materials.
- A finished GLOBAL Encasement, Inc. system shall be seamless and form a uniform, continuous, flexible coating that encloses the painted surface.**
- G. Coverage rate per gallon varies depending upon porosity, texture, condition of the surface and the mil thickness. Rough, highly textured surfaces require more material than flat or smooth surfaces.

The calculated coverage rate for **Your Last Coat™** on a flat, non-porous surface is: 126 sq. ft per gallon (applied @ 13 wet mils = 7 dry film thickness per coat.)

Your Last Coat™ can be used over various interior or exterior surfaces including: walls, ceilings, trim, flat Transite, rough, porous, textured or irregular surfaces,

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cementitious surfaces, stucco, wood siding, shingle siding, window frames, windowsills & porch walls, wood overhangs, porch ceilings, wood trim & posts, porch floors.

- H. To prevent damage to the coatings when removing all plastic and masking tape, use a utility knife to first cut at coating edges. Under normal drying conditions, GLOBAL Encasement, Inc. products develop their full strength and chemical resistance properties 7 to 10 days following application. The circulation of air helps water-based materials to dry more rapidly. Follow all applicable state and/or federal OSHA Guidelines.

3.04 FIELD QUALITY REQUIREMENTS

- A. Manufacturer's Field Services: Inspection by a GLOBAL Encasement, Inc. Authorized Sales Representative can be made to verify the proper installation of the system. Any areas that do not meet the minimum standards for application as specified herein shall be corrected. On a case-by-case basis, payment of expenses incurred by the GLOBAL Encasement, Inc. Representative may be the responsibility of the building owner and/or contractor.
- B. GLOBAL Encasement, Inc.'s inspection or verification shall not constitute acceptance of responsibility for any improper application of material.
- C. **Disclaimer:** GLOBAL Encasement, Inc.'s employees and/or Authorized Sales Representatives are not responsible for any liabilities resulting from the application or use of these materials.

3.05 CLEANING

Use soapy water while coatings are still wet and wipe clean. Surfaces not intended to receive GLOBAL Encasement, Inc. system shall be protected during the application process. Should this protection not be effective, or not be provided, the respective surfaces shall be restored to their proper conditions by cleaning, repairing or replacing. All debris from completion of work shall be completely removed from the project site.

IV. MATERIALS

The following materials listed in these recommendations are available from:

GLOBAL Encasement, Inc.
701 E. Santa Clara St.
Ventura, CA 93001-5972 USA
(800) 266-3982 / Fax (800) 520-3291
Website: www.encasement.com

1. **Your Last Coat™, ClearCoat™ TopCoat**
2. **PrepLESS Primer™**
3. **R.I.P.™**
4. **PremeClean™ Industrial Cleaner**
5. **Globe Caulk™**

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. The prospective user should determine the suitability of our materials and installation recommendations before adopting them for commercial use.

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