Roofing
with GLOBAL Encasement, Inc.

www.encasement.com
A Pro-Planet Company with Green Coatings

GEI products as your best value investment offer:

• High quality, high performance non-toxic, water-based super compliant zero and low VOC architectural green coatings engineered and manufactured using fresh 100% acrylic polymers and copolymers

• Field proven Class A Fire Rated and extensively tested by third party independent and accredited laboratories

• Environmentally perfect, cost effective, long-lasting, warranted coating system designs that give proven measurable results and can provide answers to your toughest building maintenance challenges

Proven, Original Customer System Designs
Manage-in-place Asbestos and Lead
Solar/Heat Reflective Roof Coating Systems
Roofing and Building Retrofits
Weatherproof Building Exteriors
Historic Preservation

Why Replace? – Just Encase!

World-Class Solutions for Better Building Environments
GLOBAL Encasement, Inc. products have passed Independent Testing by third party, independent accredited laboratories and results have met or exceeded the minimum requirements to pass all the test procedures listed below.

Southwest Research Institute, TX
- ASTM E162  Surface Flammability of Materials - Class A.
- ASTM E119  Does not adversely affect rating of fireproofing.

European Certification Tests
- EN 13823  Class B - Reaction to fire tests for building products.
- EN ISO 11925-2  Class B - Reaction of fire tests – Ignitability of building products subjected to direct impingement of flame.

Warrington Fire Safety Labs, UK

Anderson Laboratories, Inc., MA
- UPITT Test for Combustion Product Toxicity (nothing toxic is released in a fire).

CalCoast Analytical Laboratories, CA
- ASTM D1653  Moisture Vapor Transmission
- ASTM E313  Yellowing
- ASTM E96  Moisture Vapor Transmission
- ASTM D4214  Chalking
- ASTM D522  Elongation / Flexibility
- ASTM D2794  Impact Resistance
- ASTM D714  Blister Resistance
- ASTM D610  Rust Resistance
- ASTM G-53  QUV Exposure (1000 hour test)
- ASTM E736  Adhesion
- ASTM C732  Accelerated Weathering (1000 hour test)
- EPA METHOD 24  Volatile Organic Content (VOC)

HELP Technical Document #100-93 Lead Access Testing (passed)

Why Replace? – Just Encase!
Testing and Approvals

D.L. Laboratories, Inc., NY

ASTM D1653  Water Vapor Permeability-Method A
ASTM D2370  Viscoelastic Properties
ASTM D3359  Adhesion-Liquid
ASTM D4541  Adhesion-Reinforced Products
ASTM D3960  Volatile Organic Content (VOC)
ASTM D4060  Abrasion Resistance
ASTM D1308  Distilled Water and Chemical Resistance
ASTM D2486  Scrub Resistance
ASTM D3273/3274  Mildew Resistance
ASTM E-1795-97 Standard for Liquid Coating Encapsulation Products for Leaded Paint in Buildings
ASTM D4214  Chalking
ASTM D1475  Density or weight per gallon
ASTM D1005, 1186 Dry-film thickness
ASTM D823  Film application on test panels
ASTM D522  Flexibility
ASTM D4708  Free film preparation
ASTM D2794  Impact resistance
ASTM E300  Sampling
ASTM D3924  Standard laboratory conditions
ASTM D2370  Tensile properties
105 CMR 460.115 Toxicological Assessment Protocol for Encapsulants
DL-11667A Modified Heat Resistance Test

Roof Testing and Approvals

UL 790  Underwriter’s Laboratories UL 790 Class A Rating, Listing #R15397
ENERGY STAR® GLOBAL Encasement, Inc. is an ENERGY STAR® PARTNER and its RoofCoat products have earned the ENERGY STAR® label because it meets and exceeds the US EPA’s specifications for solar reflectance and reliability. ENERGY STAR® labeled roof products are designed to help save money on utility bills and reduce energy wastage.

Why Replace? – Just Encase!

World-Class Solutions for Better Building Environments

701 E. SANTA CLARA ST., VENTURA, CA USA
(TEL) 800-266-3982 / (FAX) 800-520-3291
www.encasement.com
An investigation of the external fire resistance characteristics of our water based acrylic topcoat (AsbestoSafe®/Your Last Coat™/RoofCoat™) applied over a rated and unrated built up roof deck was conducted. Based on the results, the roof covering and coating system meets the Class "A" Burning Brand and Class "A" Intermittent Flame over a Class "A" rated roof system and meets Class "B" Burning Brand and Intermittent Flame acceptance criteria over unrated roof systems.

The combination of these two evaluations on both rated and un-rated BUR and 3-tab composition roofing systems has established the coating system will not change the existing roof system rating, Class A, B or C.

Mold/Mildew Testing

- ASTM D4488 Guide for testing cleaning performance of products intended for use on resilient Flooring and washable walls (Premeclean™)
- ASTM D3273 Standard test method for resistance to growth of mold on the surface of interior Coatings in an environmental chamber
- ASTM D3274 Standard test method for evaluating degree of surface disfigurement of paint Films by microbial (fungal or algal) growth or soil and dirt accumulation
- ASTM G21 Standard practice for determining resistance of synthetic polymeric materials to fungi

Approvals and Acceptances

- U.S. Government Contract #GS06F0010J - Worldwide GSA Federal Supply Service Multiple Award Schedule
- Complies with U.S. Executive Orders for Energy Efficiency and Pollution Prevention, former Executive Order 13101 and current Executive Order 13423.
- DL Labs Certified 20-Year Lead Encapsulant and ASTM E1795 Tested
Nevada, Arizona, New Mexico, Oklahoma, Texas, Indiana, Arkansas, Wisconsin, West Virginia, Kentucky, North Carolina, South Carolina, North Dakota, Wyoming

- Approved for use in all the U.S. Territorial Governments, including, Guam, Midway Islands, Federated States of Micronesia, American Samoa, Puerto Rico and U.S. Virgin Islands
- Encasement is a US Environmental Protection Agency (EPA) Accepted abatement method
- Energy Star Partner - Energy Star is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping to save citizens money and protect the environment through energy efficient products and practices.
- Approved for interior and exterior use by all United States Departments of Health
- Passed Massachusetts Dept. of Public Health Encapsulation Product Performance Protocol
- Specified and used worldwide, including Japan, Philippines, South Korea, United Kingdom, Austria, Romania, New Zealand, Canada, Mexico, Barbados, Cayman Islands
- Accepted by the Canadian Government and Approved by the Canada Ministry of Labour
- Underwriter’s Laboratories (UL Listed)
- Accepted by WR Grace for use over fireproofing materials
- Approved and specified for use by the US Departments of Agriculture (USDA), Housing and Urban Development (HUD), Energy (DOE), Justice (DOJ), Defense (DOD: US Navy, US Air Force, US Coast Guard, US Army), Defense District Schools (DODDS), US Veteran’s Administration Medical Centers
- School System Specified, including New York City School Construction Authority, Los Angeles Unified School District, San Bernardino Unified School District, New Orleans Public Schools District, Columbia University, Yale University, Harvard University, University of California
- Does not adversely affect the fire rating of asbestos fireproofing, and complies with all known building codes, rules and regulations
- Accepted for use over fiberglass or most other fiber containing materials,
- Qualifies as super compliant low VOC architectural coatings in accordance with SCAQMD (South Coast Air Quality Management District)
- Low VOC materials have Class "A" Fire Rating (Flame Spread = 0, Smoke Developed = 5),
- Passed UPITT Test for Combustion Product Toxicity (accepted for use in elevator shafts)
- Accepted for use by the City of New York, Department of Buildings, MEA #309-94-M
- New York City Vendor #0002085630-1
- Complies with State of New York-Uniform Bldg. Code #1120-15
- Registered with New York State Office of Fire Prevention and Control
- Complies with City of Phoenix, AZ Construction Code Requirements
- City of Phoenix Approval of AsbestoSafe Encasement Products over Existing Fireproofing Materials
1. PRODUCT NAME

RoofCoat™

2. MANUFACTURER

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

3. PRODUCT DESCRIPTION

RoofCoat™ is a Class A Fire Rated, UV Resistant, high performance, non-toxic, zero VOC, acrylic coating that forms a waterproof and seamless monolithic membrane. It results in an extremely tough, durable, flexible and renewable roof system that has 83% solar reflectance - for additional savings on indoor cooling costs.

RoofCoat™ is excellent for exterior use and is suitable for application over asphalt, single-ply, hypalon, PVC, metal, Transite and Galbestos roofing.

RoofCoat™ GREEN Features:
- UL 790 Class A Rated
- 83% Solar-Reflectance, UV Resistant
- Extremely tough, durable and flexible
- Non-Toxic, Non-Mercuric
- Mildew and mold resistant
- Can be custom tinted almost any color
- Waterproof yet breathable
- Flexible
- Zero VOCs (Volatile Organic Content)

4. TECHNICAL DATA AND PROPERTIES

Solids by weight: 66% (+/- 2%)
Solids by volume: 52% (+/- 2%)
Weight per gallon: 11.85 lbs
VOC: Zero
Liquid appearance: Bright white with mild scent
Viscosity: 110 +/-10 KU
Drying time:
- To Touch: 1-4 hours
- Recoat After Dry To Touch: 2-8 hours
- Full Cure: 10-14 days

RoofCoat™ has an elongation of 329% and a tensile strength of 304 psi, superior flexibility, high impact resistance and adhesion all tested in accordance with (ASTM D 6083) standard testing protocol for liquid applied roofing systems.

5. PRODUCT INSTALLATION

- RoofCoat™ is ready to use.
- DO NOT DILUTE. PROTECT FROM FREEZING.
- Apply by brush or roller, or airless sprayer.
- All surfaces must be clean, dry, and free of mold, mildew, chalking, dirt, grease, oil, or other contaminants that would interfere with proper adhesion.
- Best applied in temperatures between 50°F and 100°F.
- Dries in 2-8 hours. Cool temperatures and high humidity can affect dry and cure time.
- Follow manufacturer’s application guidelines.
- Easy to use and clean up is with water.

COVERAGE:

RoofCoat™ coverage rate on a flat surface is:
- 10-Year System = 16 mil DFT @ 60 sq. ft./gallon
- 20-Year System = 32 mil DFT @ 30 sq. ft./gallon

*DFT: Dry Film Thickness

<table>
<thead>
<tr>
<th>Product</th>
<th>Wet Mils</th>
<th>Dry Mils</th>
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<tr>
<td>RoofCoat™</td>
<td>31</td>
<td>16</td>
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Coverage varies depending upon the porosity and texture of the surface being encased, and the specific roofing system design. Please refer to manufacturer’s application guidelines.

Spray Application: Use self-cleaning reversible spray tip size .019-.035 (.021 is most often used).

Brush: Use any nylon bristle brushes.
Roller: Use a ¾ inch nap.

6. AVAILABILITY AND COST

Call GLOBAL Encasement, Inc. at 800-266-3982 for pricing and availability.

7. WARRANTY

GLOBAL Encasement, Inc. can warrant for a period of up to twenty (20) years from the date of purchase that RoofCoat™ is free of any defects in manufacturing. The Limited Warranty herein described shall be in lieu of any other warranty, expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

GLOBAL Encasement, Inc.’s sole liability under this Limited Warranty shall be, at its option, to replace any portion of the product proven to be defective in manufacture.

Any defects discovered must be reported to GLOBAL Encasement, Inc. within the Limited Warranty period, and no later than 30 days after discovery.

This Limited Warranty does not extend to liability for any damages due to abuse by occupants, improper maintenance, water damage, or any other causes beyond anticipated conditions and the manufacturer’s control.

As an ENERGY STAR® Partner, GLOBAL Encasement, Inc. has determined that this product, in white, meets the ENERGY STAR® guidelines for energy efficiency.

UL 790 Class A Rated
1. PRODUCT NAME

MPE™ Multi-Purpose Encapsulant

2. MANUFACTURER

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

3. PRODUCT DESCRIPTION

MPE™ is a clear acrylic, water-based, non-toxic, non-flammable, zero VOC, primer, sealer and conditioner for fibrous, porous, Asbestos-Containing Materials (ACM) and for surfaces that can be only marginally cleaned or are difficult to adhere to. MPE™ functions as a penetrating encapsulant and primer where tenacious adhesion is needed to safely lock down fibrous and asbestos containing surfaces. MPE™ is designed and engineered to deeply penetrate asbestos-containing materials.

MPE™ is excellent for use over:
- Fluffy or cementitious sprayed on fireproofing
- Decorative and acoustical plaster on ceilings and walls
- Insulation on pipes, boilers, tanks and ducts
- Transite siding and roofing
- Galbestos
- Mineral cap sheet
- Asphalt BUR, modified bitumen
- Concrete
- Fiberglass
- Floor tiles
- Textiles and other fibrous materials
- Floor adhesives and mastic

4. TECHNICAL DATA

- Solids by weight: 25.2% (+/- 2%)
- Solids by volume: 24% (+/- 2%)
- Weight per gallon: 8.55 lbs
- VOC: Zero
- Liquid appearance: Milky white
- Dried appearance: Clear
- Drying time: ½ to 24 hours (depends on dilution, air temperature and humidity)
- Clean up: Water

5. PRODUCT INSTALLATION

- MPE™ is ready to use.
- PROTECT FROM FREEZING.
- Apply by brush or roller, or airless sprayer.
- All surfaces must be clean, dry, and free of mold, mildew, chalking, dirt, grease, oil, or other contaminants that would interfere with proper adhesion.
- Best applied in temperatures between 50°F and 100°F.
- Apply only when weather conditions will permit drying before rain, dew or freezing temperatures.
- Cool temperatures and high humidity retard cure.
- Follow manufacturer’s application guidelines.
- Easy to use and clean up is with water.

MPE™ should be applied and allowed to dry thoroughly before applying topcoats. In no case should topcoats be applied until GE-MPE is completely dry. Topcoat with GLOBAL Encasement, Inc. materials.

COVERAGE:

MPE™ coverage rate on a flat surface is 200 sf/gallon and will yield 4 mils DFT (Dry Film Thickness). Coverage rate may vary depending upon porosity, texture of the surface being encased and mil thickness desired.

Spray Application:
Use self-cleaning reversible spray tip, Size .015-.019.

MPE™ is ready to use and should not be diluted for transite applications.

It can be diluted with water for the following applications:

- Pre-Removal Surfactant Dilute 10:1
  Amended water for wet-out prior to abatement
- Lockdown Encapsulant Dilute 6:1
  For use as a post-removal encapsulant and as a misting agent prior to air monitoring

6. AVAILABILITY AND COST

Call GLOBAL Encasement, Inc. at 800-266-3982 for pricing and availability.

7. WARRANTY

Unless GLOBAL Encasement, Inc. product provides a written warranty of fitness for a particular use, GLOBAL Encasement’s sole warranty is that the product, as supplied, will meet the current sales specifications and is specific only to return of product found to be defective upon opening of container, within one year from date of purchase. Customer’s exclusive remedy and GLOBAL Encasement, Inc.’s liability for breach of warranty is limited to refund of the purchase price or replacement of any product shown to be other than as warranted and GLOBAL Encasement, Inc. expressly disclaims any liability for incidental or consequential damages.
World-Class Solutions for Better Building Environments

1. PRODUCT NAME
   R.I.P.™ Rust-Inhibiting Primer

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

3. PRODUCT DESCRIPTION
   R.I.P.™ is an environmentally sound, water-based Rust Inhibiting Primer to be used over ferrous metal surfaces. Employing the latest breakthroughs in water-based acrylic technology, it can even be applied over properly prepared rusted surfaces, with excellent resistance to flash rusting.

   **R.I.P.™ Features:**
   - Excellent for interior or exterior use
   - Easy to use
   - Halts oxidation and corrosion of metal surfaces
   - Temperature resistant to 235ºF (continuous)
   - Excellent stain blocker

   R.I.P.™ is excellent for interior and exterior use and is suitable for application over metal window frames, metal sidewalls, rail cars, pipes and equipment, tank exteriors and structural steel. Acting also as a primer, once the R.I.P.™ is applied the surface is ready to receive any of GLOBAL Encasement, Inc.’s TopCoats.

4. TECHNICAL DATA
   - Solids by weight: 51.3% (+/- 2%)
   - Solids by volume: 40% (+/- 2%)
   - Weight per gallon: 10.24 lbs
   - VOC: 100 g/l
   - Liquid appearance: Color will vary
   - Viscosity: 85-95 KU
   - pH: 9-10
   - Drying time @ 75ºF: 2 hours
   - Clean up: Warm, soapy water

   This non-toxic, water base product conforms to the minimum VOC requirements set forth by all California Counties. This product conforms to Green Seal GS--03.

5. PRODUCT INSTALLATION
   - R.I.P.™ is ready to use or can be thinned (water, no more than 5%).
   - PROTECT FROM FREEZING.
   - Apply by brush or roller, or airless sprayer.

   - All surfaces must be clean, dry, and free of dirt, grease, oil, or other contaminants that would interfere with proper adhesion.
   - Apply in temperatures above 45ºF and where the surface temperature is more than 5ºF above the dew point.
   - Cool temperatures and high humidity can affect dry and cure time.
   - When the surface temperature is low and the air temperature is high, adhere strictly to application thickness of no more than 3 dry mils (to prevent surface skinning and possible blistering).
   - Follow manufacturer’s application guidelines.
   - Easy to use and clean up is with water.

   **COVERAGE:**
   The calculated coverage rate on a flat surface is:
   - 3 mil DFT @ 192 sf/gallon

   R.I.P.™ may be brushed, rolled or spray applied. The coverage varies depending on porosity, mil thickness, and texture of the surface being covered. A recommended thickness of 2-3 mils is for properly prepared light rust, 4-6 mils is for properly prepared heavy rust.

   **Spray Application:**
   Use self-cleaning reversible spray tip Size .017-.021.
   Brush: Use any nylon bristle brushes.

6. AVAILABILITY AND COST
   Call GLOBAL Encasement, Inc. at 800-266-3982 for pricing and availability.

7. WARRANTY
   GLOBAL Encasement, Inc. can warrant for a period of up to twenty (20) years from the date of purchase that R.I.P.™ Rust Inhibiting Primer is free of any defects in manufacture. The Limited Warranty herein described shall be in lieu of any other warranty, expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

   GLOBAL Encasement, Inc.’s sole liability under this Limited Warranty shall be, at its option, to replace any portion of the product proven to be defective in manufacture.

   Any defects discovered must be reported to GLOBAL Encasement, Inc. within the Limited Warranty period, and no later than 30 days after discovery.

   This Limited Warranty does not extend to liability for any damages due to abuse by occupants, improper maintenance, water damage, or any other causes beyond anticipated conditions and the manufacturer’s control.
1. PRODUCT NAME

PremeClean™ Industrial Cleaner Concentrate

2. MANUFACTURER

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

3. PRODUCT DESCRIPTION

PremeClean™ Industrial Cleaner is a highly effective, water-soluble, and versatile cleaner concentrate. It quickly and easily cuts through grease, oil, and dirt and can be used in many areas that require intense cleaning and decontamination such as institutional kitchens, medical facilities, public areas, and on all types of interior and exterior building surfaces.

Despite its intensive cleaning power, PremeClean™ maintains its non-toxic, non-corrosive, and biodegradable properties. It is highly suited to help sanitize and disinfect institutions such as hospitals, schools, prisons, cafeterias, and more. This all-purpose cleaner can also be custom-diluted for various uses to suit the needs for business and medical offices, hotels, playground equipment, and many others.

4. TECHNICAL DATA

- Weight per gallon: 8.5 lbs
- Physical form: Liquid
- Color: Light blue
- pH: 9-10

PremeClean™ was tested in accordance with ASTM D4488, “Guide for Testing Cleaning Performance of Products Intended for Use on Resilient Flooring and Washable Walls”, Section A-5, Particulate and Oily Soil/ Vinyl Tile Test, and at a dilution of 1:10 with water exhibited a cleaning efficiency of 88% or 2¼ times better than untreated tap water.

5. PRODUCT INSTALLATION

- PremeClean™ is ready to use.
- PROTECT FROM FREEZING.
- Follow manufacturer’s application guidelines.
- Easy to use and clean up is with water.

Coverage Rate: 150 to 200 sf/gallon

Diution Rates:
- For Greasy/Oily Surfaces: Mix 1 part PremeClean™ with 8 parts water.
- For General Cleaning: Mix 1 part PremeClean™ with 15 parts water.
- For Glass, ceramic tile, windows, mirrors, stainless steel: Mix 1 part PremeClean™ with 50 parts water.

APPLICATION GUIDELINES:

- Apply liberally to the surface at the rate of 150 to 200 square feet per gallon. Allow the solution to stand for 3 to 5 minutes before rinsing with plain water.
- Before cleaner solution dries, wash the surface with clean water. Rinse or wipe thoroughly as required to remove all cleaning solution.
- Allow the substrate to dry completely before the application of Global Encasement Inc. products.
- Read and follow information on the material safety data sheet.

6. AVAILABILITY AND COST

Product is packaged in 5-gallon pails and in 55-gallon drums. Call GLOBAL Encasement, Inc. at 201-902-9770 or 800-266-3982 for pricing and availability.

7. WARRANTY

GLOBAL Encasement, Inc. warrants that the product or products described herein will conform with its published specifications. The products supplied by GLOBAL Encasement, Inc. and information related to them are intended for use by buyers having necessary industrial skill and knowledge.

Buyers should undertake sufficient verification and testing to determine the suitability of GLOBAL Encasement, Inc. materials for their own particular purpose. Since buyer’s conditions of use of product are beyond GLOBAL Encasement, Inc.’s control, GLOBAL Encasement, Inc. does not warrant any recommendations and information for the use of such products.

GLOBAL Encasement, Inc. disclaims all other warranties including the implied warranty of merchantability and fitness for any particular purpose in connection with the use of its products.

Why Replace? – Just Encase!

World-Class Solutions for Better Building Environments

Updated: July 2014
1. **PRODUCT NAME**

   **Globe Caulk™**

2. **MANUFACTURER**

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

3. **PRODUCT DESCRIPTION**

   **Globe Caulk™** is a high quality, water-based, non-toxic, non-flammable low VOC (43 g/l), elastomeric 100% acrylic caulk that contains no solvents.

   It is excellent for interior or exterior use to bridge cracks, fill holes and feather ridges.

   It is designed to maintain outstanding performance characteristics for many years, remaining flexible, weather resistant and well adhered.

   **Globe Caulk™** Features:
   - Elongation of 900% and superior flexibility over a wide temperature range (passes 1” mandrel bend test at -15°C)
   - Durable finish with superior adhesion to many surfaces
   - Meets or exceeds TT-S-00230C Type II Class B and ASTM C-920-79, Class 12 ½

4. **TECHNICAL DATA AND PROPERTIES**

   - Solids by weight: 61% (+/- 2%)
   - Solids by volume: 59.4% (+/-2%)
   - Weight per gallon: 8.8 lbs
   - VOC: 43 g/l
   - Appearance: White
   - Drying time: 10 to 20 minutes

5. **PRODUCT INSTALLATION**

   - **Globe Caulk™** is ready to use.
   - DO NOT DILUTE. PROTECT FROM FREEZING.
   - Apply by brush, trowel, putty knife, or standard caulking gun.
   - All surfaces must be clean, dry, and free of dirt, grease, oil, or other contaminants that would interfere with proper adhesion.
   - Apply in temperatures between 50°F and 100°F.
   - Dries in 10 to 20 minutes. Cool temperatures and high humidity can affect dry and cure time.
   - Follow manufacturer’s application guidelines.
   - Easy to use and clean up is with water.

6. **AVAILABILITY AND COST**

   Call GLOBAL Encasement, Inc. at 800-266-3982 for pricing and availability.

7. **WARRANTY**

   GLOBAL Encasement, Inc. can warrant for a period of up to twenty (20) years from the date of purchase that **Globe Caulk™** is free of any defects in manufacturing. The Limited Warranty herein described shall be in lieu of any other warranty, expressed or implied, including but not limited to the implied warranties of merchantability and fitness for a particular purpose.

   GLOBAL Encasement, Inc.’s sole liability under this Limited Warranty shall be, at its option, to replace any portion of the product proven to be defective in manufacture.

   Any defects discovered must be reported to GLOBAL Encasement, Inc. within the Limited Warranty period, and no later than 30 days after discovery.

   This Limited Warranty does not extend to liability for any damages due to abuse by occupants, improper maintenance, water damage, or any other causes beyond anticipated conditions and the manufacturer’s control.

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**Why Replace? – Just Encase!**

Updated: July 2014

**World-Class Solutions for Better Building Environments**
1. PRODUCT NAME

GEI Seam Tape

2. MANUFACTURER

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

3. PRODUCT DESCRIPTION

GEI Seam Tape is excellent for use in sealing seams, and in some GLOBAL Encasement, Inc. System designs to bridge cracks and patch holes. GEI Seam Tape offers an immediate aggressive grip and features 20 mils of gray elastomeric adhesive/sealant backed with spun bond polyester fabric.

4. TECHNICAL DATA AND PROPERTIES

BONDING TIME: Immediate aggressive grip, full bond in 24 hours

TEMPERATURES:
Application 30°F to 110°F
Operating Limits 10°F to 180°F

LOWER TEMPERATURE FLEXIBILITY: Passes, no cracking.
TENSILE STRENGTH: 570 psi (with 75% elongation)
SHELF LIFE: 18 months to 2 years.
PEEL STRENGTH: 5 lbs. per linear inch.
WATER RESISTANCE: Excellent

5. PRODUCT INSTALLATION

- GEI Seam Tape is ready to use.
- All surfaces must be clean, dry, and free of dirt, grease, oil, or other contaminants that would interfere with proper adhesion.
- Surface can be primed with PrepLESS Primer™ and exposed areas can be top coated with any of GLOBAL Encasement, Inc.’s topcoats.
- Cut tape the desired length, peel off release liner, and press into place removing all buckles and bubbles.

6. AVAILABILITY AND COST

Product is packaged in 4 inch x 50 foot rolls, 12 rolls per case.

Our data is based on information from laboratory and field-testing and analysis, which we believe to be reliable. Since the conditions of use are beyond GLOBAL Encasement, Inc.’s control, we cannot guarantee or accept any liability resulting from the misuse of our products.
1. PRODUCT NAME

GEI Fabric
Polyester Reinforcement Fabric

2. MANUFACTURER

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

3. PRODUCT DESCRIPTION

GEI Fabric is a 100% polyester reinforcement fabric made without the use of adhesives or binders. It is produced by the world’s largest manufacturer of stitch-bonded fabrics using state-of-the-art technology.

GEI Fabric has outstanding physical strength, quick wet-out and saturation, and superior elongation.

GEI Fabric properties, characteristics and ease in handling and application, make it the best quality fabric to use with any of GLOBAL Encasement, Inc.’s TopCoats.

4. TECHNICAL DATA AND PROPERTIES

ROLL DIMENSIONS / SIZES / WEIGHTS:
20” Wide x 324’ Long / 533 sf / 12 lbs
40” Wide x 324’ Long / 1066 sf / 24 lbs
Other widths available. See TABLE 1 below.

5. PRODUCT INSTALLATION

- GEI Fabric is ready to use.
- May be applied by hand or roofing broom.
- All surfaces must be clean, dry, and free of dirt, grease, oil, or other contaminants that would interfere with proper adhesion.
- Complete saturation of GEI Fabric requires 3 gallons per 100 square feet of Roofcoat™ Topcoat.
- Best applied in temperatures between 50ºF and 100ºF.
- Apply only when weather conditions will permit drying before rain, dew or freezing temperatures.
- Follow manufacturer’s application guidelines.
- Complete saturation of GEI Fabric requires 3 gallons per 100 square feet of Roofcoat™ Topcoat.

6. AVAILABILITY AND COST

Various sizes of cut rolls are available upon request. Call GLOBAL Encasement, Inc. at 800-266-3982 for pricing and availability.

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<tr>
<th>Properties</th>
<th>Test Method</th>
<th>GEI Fabric Average Value</th>
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<tbody>
<tr>
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<td>Calculated by formula</td>
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</tr>
<tr>
<td>Bursting Strength (lbs)</td>
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<td>177</td>
</tr>
<tr>
<td>Tensile Strength (psi)</td>
<td>ASTM D1682 (Grab)</td>
<td>57.1</td>
</tr>
<tr>
<td>Tear Strength (lbs)</td>
<td>ASTM D1117 (Trapezoid)</td>
<td>16.1</td>
</tr>
<tr>
<td>Elongation (%)</td>
<td>ASTM D1682</td>
<td>62</td>
</tr>
<tr>
<td>Conformability</td>
<td></td>
<td>Excellent</td>
</tr>
<tr>
<td>Ease of Saturation</td>
<td></td>
<td>Excellent</td>
</tr>
</tbody>
</table>

These products are for industrial/commercial applications only. Since the condition of use is beyond GLOBAL Encasement’ Inc.’s control, we cannot guarantee or accept any liability resulting from the misuse of our products.

Why Replace? – Just Encase!

Updated: July 2014

World-Class Solutions for Better Building Environments
MATERIAL SAFETY DATA SHEET

RoofCoat™

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: RoofCoat™
PRODUCT USE: Encasement TopCoat
PRODUCT DESCRIPTION: Elastomeric Acrylic Industrial Coating, Water-Base
Manufacturer: GLOBAL Encasement, Inc.
701 E. Santa Clara St., Ventura, CA 93001
Contact #s: Tel. # (800) 266-3982 / Fax (800) 520-3291
Website Address: www.encasement.com

SECTION II – COMPONENT INFORMATION

Material or Component: Inert Pigment: Mixture*
CAS No.: 7732-18-5
Acrylic Polymer: Not Hazardous
CAS No.: 7732-18-5
Water: 13463-67-7
Titanium dioxide: 13463-67-7

*Pigment color may contain calcium carbonate, alumina trihydrate, zinc oxide, and other particulates not otherwise regulated in varying amounts, depending on color of product.

OSHA PEL or ACGIH TLV: This product contains no hazardous ingredients as per OSHA 29 CFR 1910.1200

SECTION III – HAZARDS IDENTIFICATION

EFFECTS OF OVER EXPOSURE:
Inhalation: Vapors or spray mists may be slightly irritating to the eyes, nose, throat, and mucous membrane of the respiratory tract, producing symptoms of a headache and nausea in poorly ventilated areas.
Eye Exposure: Direct contact; slightly irritating to eyes.
Skin exposure: Prolonged or repeated contact with coating may cause slight skin irritation.
Ingestion: May cause nausea.

Flammability: 0=
Health: 1=
Reactivity: 0=
Special:

HAZARD INDEX:
0=Minimal, 1=Slight
2=Moderate, 3=Serious, 4=Severe

SECTION IV – FIRST AID INFORMATION

EMERGENCY FIRST AID PROCEDURES: For inhalation, move subject to fresh air. For eye contact, flush with a large amount of water for at least 15 minutes. See a physician if irritation persists. Wash affected skin area with soap and water. If swallowed dilute by giving 2 glasses of water to drink. Call a physician. Never give anything by mouth to an unconscious subject.
SECTION V – FIRE AND EXPLOSION INFORMATION

FLAMMABILITY CLASSIFICATION: DOT - Not Regulated
Flash Point – Non Combustible
LEL - N/A

EXTINGUISHING MEDIA:
N/A

UNUSUAL FIRE & EXPLOSION HAZARDS:
Material can splatter above 212°F
Polymer film can burn.

SPECIAL FIRE FIGHTING PROCEDURES: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency.

SECTION VI – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep unnecessary people away. Dike and contain with inert absorbent material (sand, earth, etc.). Transfer to containers for recovery or disposal. Floors may be slippery; use care to avoid falls. Flush final traces with water.

SECTION VII – HANDLING AND STORAGE INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING: Do not take internally. Use approved clothing when using RoofCoat™. Also, follow all applicable OSHA & EPA, (etc.) regulations concerning normal latex paint spraying activities.

PRECAUTIONS TO BE TAKEN IN STORING: Maximum storage temperature 100°F. Keep container tightly closed and upright to prevent leakage. Precautionary labeling: “Keep from Freezing,” product may coagulate. Material may develop bacterial odor on long-term storage if contaminated.

KEEP AWAY FROM CHILDREN.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None required if good ventilation is maintained. Wear MSHA/NIOSH approved dust respirator during spray applications.

VENTILATION: Sufficient ventilation, in pattern and volume, should be provided to keep the air contaminant concentration below applicable exposure limits. All application areas should be ventilated in accordance with OSHA regulation 29 CFR Part 1910.94.

PROTECTIVE GLOVES: Impervious gloves for prolonged or repeated contact.

EYE PROTECTION: Use safety eyewear including side shields, face shields, or chemical splash goggles (ANSI 2-87.1) or approved equivalent.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical Form:</th>
<th>Liquid</th>
<th>Odor:</th>
<th>Mild scent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
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<td>Lbs/Gal:</td>
<td>11.85</td>
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<td>Viscosity (KU):</td>
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<td></td>
<td></td>
<td>VOC:</td>
<td>Zero</td>
</tr>
</tbody>
</table>
SECTION X – STABILITY AND REACTIVITY INFORMATION

STABILITY: Stable.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Will not occur.
CONDITIONS TO AVOID: Keep from freezing.
INCOMPATIBILITY: None reasonably foreseeable.

SECTION XI – TOXICOLOGICAL INFORMATION (will only print available data)

Carcinogenicity? NO
Refer to section VII for proper handling.
No other toxicological information available.

SECTION XII – ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Non-toxic
TERRESTRIAL TOXICITY: Non-toxic
No other ecological information available.

SECTION XIII – DISPOSAL INFORMATION

WASTE DISPOSAL METHOD: Disposal should be in accordance with Federal, State and local regulations for water base coatings. Refer to section xv for more information.

SECTION XIV – TRANSPORTATION INFORMATION

DOT CLASSIFICATION: Non-hazardous.
UN NUMBER: None

SECTION XV – REGULATORY INFORMATION

SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION. This product contains none of the toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 and of CFR 372.

SECTION XVI – OTHER INFORMATION

The information contained herein is to the best of our knowledge and belief has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained on our written contract of sale or acknowledgment.

Information complies with New Jersey DOH Right-To-Know Labeling Law (N.J.A.C. 8:59 –5.1 & 5.2)
MATERIAL SAFETY DATA SHEET

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MPE™
PRODUCT USE: Multi-Purpose Encapsulant
PRODUCT DESCRIPTION: 100% Acrylic Polymer, Water-Base
Manufacturer: GLOBAL Encasement, Inc.
701 E. Santa Clara St., Ventura, CA 93001
Contact #s: Tel. # (800) 266-3982 / Fax (800) 520-3291
Website Address: www.encasement.com

SECTION II – COMPONENT INFORMATION

Material or Component: Acrylic Polymer
CAS No.: Not Hazardous
Water: 7732-18-5

OSHA PEL or ACGIH TLV: This product contains no hazardous ingredients as per OSHA 29 CFR 1910.1200

SECTION III – HAZARDS IDENTIFICATION

EFFECTS OF OVER EXPOSURE:
Inhalation: Vapors or spray mists may be slightly irritating to the eyes, nose, throat, and mucous membrane of the respiratory tract, producing symptoms of a headache and nausea in poorly ventilated areas.

Eye Exposure: Direct contact; slightly irritating to eyes.

Skin exposure: Prolonged or repeated contact with coating may cause slight skin irritation.

Ingestion: May cause nausea.

SECTION IV – FIRST AID INFORMATION

EMERGENCY FIRST AID PROCEDURES: For inhalation, move subject to fresh air. If breathing is difficult, give oxygen. For eye contact, flush with a large amount of water for at least 15 minutes. Insure complete flushing by holding the eyelids apart during irrigation. Call a physician for further instruction. For skin contact, immediately remove contaminated clothing. Wash affected skin area with soap and water. If swallowed dilute by giving 2-3 glasses of water to drink, induce vomiting. Call a physician. Never give anything by mouth to an unconscious subject.
SECTION V  —  FIRE AND EXPLOSION INFORMATION

FLAMMABILITY CLASSIFICATION:  DOT - Not Regulated
Flash Point – N/A
LEL - N/A

EXTINGUISHING MEDIA:  N/A

UNUSUAL FIRE & EXPLOSION HAZARDS:  Material can splatter above 212°F
Polymer film can burn.

SPECIAL FIRE FIGHTING PROCEDURES:  For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency.

SECTION VI  —  ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  Keep unnecessary people away.  Dike and contain with inert absorbent material (sand, earth, etc.). Transfer to containers for recovery or disposal. Floors may be slippery; use care to avoid falls. Flush final traces with water.

SECTION VII  —  HANDLING AND STORAGE INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING:  Do not take internally.  Use approved clothing when using MPE™ over Asbestos-Containing Material (ACM). Also, follow all applicable OSHA & EPA, (etc.) regulations concerning asbestos abatement and normal latex paint spraying activities.

PRECAUTIONS TO BE TAKEN IN STORING:  Maximum storage temperature 100°F.  Keep container tightly closed and upright to prevent leakage. Precautionary labeling:  “Keep from Freezing,” product may coagulate.  Material may develop bacterial odor on long-term storage if contaminated.

KEEP AWAY FROM CHILDREN.

SECTION VIII  —  EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:  None required if good ventilation is maintained.  Wear MSHA/NIOSH approved dust respirator during spray applications.

VENTILATION:  Sufficient ventilation, in pattern and volume, should be provided to keep the air contaminant concentration below applicable exposure limits.  All application areas should be ventilated in accordance with OSHA regulation 29 CFR Part 1910.94.

PROTECTIVE GLOVES:  Impervious gloves for prolonged or repeated contact.

EYE PROTECTION:  Use safety eyewear including side shields, face shields, or chemical splash goggles (ANSI 2-87.1) or approved equivalent.

SECTION IX  —  PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form:</td>
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<td>Color:</td>
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<tr>
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<td>Specific Gravity (water = 1.0):</td>
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<td>Odor:</td>
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<td>Viscosity (KU):</td>
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</tr>
<tr>
<td>VOC:</td>
<td>Zero</td>
</tr>
</tbody>
</table>
**SECTION X – STABILITY AND REACTIVITY INFORMATION**

STABILITY: Stable.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and monoxide.
CONDITIONS TO AVOID: Keep from freezing.
INCOMPATIBILITY: Avoid alkalis and high temperatures.

**SECTION XI – TOXICOLOGICAL INFORMATION** (will only print available data)

Carcinogenicity? NO
Refer to section VII for proper handling.
No other toxicological information available.

**SECTION XII – ECOLOGICAL INFORMATION**

AQUATIC TOXICITY: Non-toxic
TERRESTRIAL TOXICITY: Non-toxic
No other ecological information available.

**SECTION XIII – DISPOSAL INFORMATION**

WASTE DISPOSAL METHOD: Disposal should be in accordance with Federal, State and local regulations for water base coatings. Refer to section XV for more information.

**SECTION XIV – TRANSPORTATION INFORMATION**

DOT CLASSIFICATION: Non-hazardous.
UN NUMBER: None

**SECTION XV – REGULATORY INFORMATION**

SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION. This product contains none of the toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 and of CFR 372.

**SECTION XVI – OTHER INFORMATION**

The information contained herein is to the best of our knowledge and belief has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained on our written contract of sale or acknowledgment.

Information complies with New Jersey DOH Right-To-Know Labeling Law (N.J.A.C. 8:59 –5.1 & 5.2)
MATERIAL SAFETY DATA SHEET

R.I.P.™

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: R.I.P.™
PRODUCT USE: Rust-Inhibiting Primer
PRODUCT DESCRIPTION: Acrylic Copolymer, Water-Base
Manufacturer: GLOBAL Encasement, Inc.
701 E. Santa Clara St., Ventura, CA 93001
Contact #s: Tel. # (800) 266-3982 / Fax (800) 520-3291
Website Address: www.encasement.com

SECTION II – COMPONENT INFORMATION

<table>
<thead>
<tr>
<th>Material or Component</th>
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<td>Styrene/Acrylic Copolymer:</td>
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<td>Dibutyl Phthalate:</td>
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<td>Glycol Ether:</td>
<td>112-34-5</td>
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<tr>
<td>Water:</td>
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</table>

*Pigment color may contain calcium carbonate, alumina trihydrate, zinc oxide, and other particulates not otherwise regulated in varying amounts, depending on color of product.

OSHA PEL or ACGIH TLV: This product contains no hazardous ingredients as per OSHA 29 CFR 1910.1200

SECTION III – HAZARDS IDENTIFICATION

EFFECTS OF OVER EXPOSURE:
Inhalation: Harmful if inhaled, may affect the brain or nervous system, causing dizziness, headache or nausea. May cause nose and throat irritation.
Contact: May cause eye irritation. May cause skin irritation.
Notice: Reports have associated repeated and prolonged occupational over exposure to solvents with permanent brain and nervous system damage.

Medical conditions prone to aggravation by exposure: If you have a condition that could be aggravated by exposure to dust or organic vapors, see a physician prior to use.
SECTION IV – FIRST AID INFORMATION

EMERGENCY FIRST AID PROCEDURES: ALWAYS GET MEDICAL ATTENTION. For inhalation, move subject to fresh air. Provide oxygen if breathing is difficult. Use artificial respiration if not breathing. For eye contact, flush with a large amount of water for at least 15 minutes. Wash affected skin area with soap and water. If swallowed, DO NOT INDUCE VOMITING!

SECTION V – FIRE AND EXPLOSION INFORMATION

FLAMMABILITY CLASSIFICATION: Flash Point – 248°F (120°C) (Setaflash)
LEL – 1000.0% UEL – 1%
OSHA – COMBUSTIBLE LIQUID CLASS IIIA
DOT – NOT REGULATED

EXTINGUISHING MEDIA: Dry chemical, foam, carbon dioxide, water fog
UNUSUAL FIRE & EXPLOSION HAZARDS: This is a water-based product however it does contain small amounts of volatile organic compounds (See Section II). Vapors are heavier than air and will accumulate. Vapors will form explosive concentrations with air. Vapors travel long distances and will flashback.

SPECIAL FIRE FIGHTING PROCEDURES: Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

SECTION VI – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Follow safe handling and use guidelines in Section VII. Contain and soak up residual with an absorbent (clay or sand). Take up absorbent material and seal tightly for proper disposal.

SECTION VII – HANDLING AND STORAGE INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid eye, skin and clothing contact. Keep hands away from face. Avoid breathing mists. Use with adequate ventilation. Keep container closed when not in use. Wash thoroughly after handling. Change clothing if exposed to heavy mist or spillage; clothing should be laundered before reuse.

PRECAUTIONS TO BE TAKEN IN STORING: Keep away from heat, sparks, open flame, and strong oxidizing agents. Keep containers closed. Store in a cool, dry place with adequate ventilation. If pouring or transferring materials, ground all containers and tools.

KEEP AWAY FROM CHILDREN.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use only with ventilation to keep vapor levels below exposure guidelines (See Section II). User should test and monitor exposure levels to insure all personnel are below guidelines. If not sure or if nor able to monitor, use OSHA approved air-purifying respirator.

VENTILATION: Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosive Limit (LEL).

SKIN AND EYE PROTECTION: Recommend impervious gloves, clothing and safety glasses with side shields or chemical goggles to avoid skin and eye contact. If material penetrates to skin, change gloves and clothing.
HYGIENIC PRACTICES: Wash with soap and water before eating, drinking, or using toilet facilities. Use of a hand cleaner is recommended. Launder protective clothing before reuse. Leather shoes can absorb and pass through hazardous materials. Check shoes carefully after soaking before reuse.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Liquid</td>
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<td>Color</td>
<td>Color varies</td>
</tr>
<tr>
<td>Flash Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity (water = 1.0)</td>
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</tr>
<tr>
<td>Odor</td>
<td>Mild scent</td>
</tr>
<tr>
<td>Lbs/Gal</td>
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<tr>
<td>pH</td>
<td>9-10</td>
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<tr>
<td>Viscosity (KU)</td>
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<tr>
<td>VOC, grams/liter</td>
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</table>

SECTION X – STABILITY AND REACTIVITY INFORMATION

STABILITY: Stable under normal storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and unidentified organic compounds. Consider all smoke and fumes from burning materials as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe.
CONDITIONS TO AVOID: Heat, sparks, and open flames.
INCOMPATIBILITY: Avoid contact with strong oxidizing agents.

SECTION XI – TOXICOLOGICAL INFORMATION (will only print available data)

Primary Route(s) of Entry: Inhalation, dermal, ingestion.
Carcinogenicity? NO
Refer to section VII for proper handling.
No other toxicological information available.

SECTION XII – ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Non-toxic
TERRESTRIAL TOXICITY: Non-toxic
No other ecological information available.

SECTION XIII – DISPOSAL INFORMATION

WASTE DISPOSAL METHOD: Coagulate the emulsion by the stepwise addition of ferric chloride and lime. Incinerate the solids and contaminated diking material at a permitted facility according to current Federal, State and local regulations. Refer to section XV for more information.

SECTION XIV – TRANSPORTATION INFORMATION

DOT CLASSIFICATION: Non-hazardous.
UN NUMBER: None

SECTION XV – REGULATORY INFORMATION

SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION. This product contains none of the toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 and of CFR 372.
SECTION XVI – OTHER INFORMATION

OTHER PRECAUTIONS: Do not weld, heat, cut or drill on full or empty containers.

The information contained herein is accurate, to the best of our knowledge and belief. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. It is the responsibility of the user to comply with all applicable federal, state, and local laws and regulations.

Information complies with New Jersey DOH Right-To-Know Labeling Law (N.J.A.C. 8:59 –5.1 & 5.2)
SECTION I – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PremeClean™
PRODUCT USE: Interior and Exterior Building Surface Preparation
PRODUCT DESCRIPTION: All Purpose, Non-Toxic, Biodegradable Industrial Cleaning Solution
Manufacturer: GLOBAL Encasement, Inc.
701 E. Santa Clara St., Ventura, CA 93001
Contact #s: Tel. # (800) 266-3982 / Fax (800) 520-3291
Website Address: www.encasement.com

SECTION II – COMPONENT INFORMATION

Material or Component: CAS No.:
Water: 7732-18-5
Proprietary Ethoxalated System: None

This product and its components are listed in or exempt from the TSCA inventory requirements. This information must be included in all MSDS’s that are copied and distributed for this material.

OSHA PEL or ACGIH TLV: This product contains no hazardous ingredients as per OSHA 29 CFR 1910.1200

SECTION III – HAZARDS IDENTIFICATION

EXPOSURE LIMIT: Not Established
TOXICITY DATA: Not Established
CARCINOGENICITY: None
PRIMARY ROUTE(S) OF EXPOSURE: Inhalation, skin and eye contact.

HAZARD INDEX: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

SECTION IV – FIRST AID INFORMATION

EMERGENCY FIRST AID PROCEDURES: For inhalation, move subject to fresh air. If breathing is difficult, give oxygen or give artificial respiration if not breathing. For eye contact, immediately flush with a large amount of water for at least 15 minutes. Ensure complete flushing by holding the eyelids apart during irrigation. For skin contact, immediately remove contaminated clothing. Wash affected skin area with soap and water. If swallowed, dilute by giving 2-3 glasses of water to drink at once. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious subject. Call a physician immediately for further instruction.
SECTION V – FIRE AND EXPLOSION INFORMATION

FLAMMABILITY CLASSIFICATION: Non-flammable
Flash Point – < 200°F
LEL - N/A

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water fog or foam.

UNUSUAL FIRE & EXPLOSION HAZARDS: None

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to cool fire-exposed containers and structures. Fight fire with remote spray monitors or from behind shields. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Do not breathe smoke or fumes.

SECTION VI – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep unnecessary people away. Stop any leakage, if possible without risk. Keep product out of sewers and watercourses by diking or impounding. Use sand or other absorbent to contain the spill, then scoop into a container for disposal.

WASTE DISPOSAL METHOD: Dispose of in accordance with federal, state, and local laws.

SECTION VII – HANDLING AND STORAGE INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING: Keep containers tightly closed. Keep containers cool, dry and away from sources of ignition. Use and store this product with adequate ventilation. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition. EMPTY containers should be completely drained, properly bunged and promptly disposed.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

VENTILATION: All application areas should be ventilated in accordance with OSHA regulation 29 CFR Part 1910.94. If local exhaust ventilation is not sufficient to maintain the employee exposure level as far below the OSHA limit as possible additional ventilation would be necessary.

PERSONAL PROTECTIVE EQUIPMENT: 1) Chemical goggles or safety glasses. 2) Gloves. 3) A NIOSH/MSHA approved respirator as necessary for dust. 4) Protective clothing as necessary to prevent skin contact.

Avoid eye, skin and clothing contact. Keep hands away from face.
Avoid breathing dusts or mists.
Keep container closed when not in use.
Wash thoroughly after handling.
Store in dry, well-ventilated area.
Change clothing if exposed to heavy dusts or spillage; clothing should be laundered before reuse.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form:</td>
<td>Liquid</td>
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<tr>
<td>Color:</td>
<td>Light Blue</td>
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<td>Melting Point:</td>
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<td>Evaporation Rate:</td>
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<td>VOC:</td>
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<td>Vapor Density:</td>
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<tr>
<td>Solubility in Water:</td>
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</tbody>
</table>
SECTION X – STABILITY AND REACTIVITY INFORMATION

CONDITIONS CONTRIBUTING TO INSTABILITY: None. Product is Stable.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Burning can produce oxides of carbon and nitrogen, ammonia, and hydrocarbons.
CONDITIONS TO AVOID: Keep away from heat, sparks, pilot lights, static electricity, and open flame.
INCOMPATIBILITY: Strong oxidizing and reducing agents.

SECTION XI – TOXICOLOGICAL INFORMATION (will only print available data)

Carcinogenicity? NO
Refer to section VII for proper handling.
No other toxicological information available.

SECTION XII – ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Non-toxic
TERRESTRIAL TOXICITY: Non-toxic
No other ecological information available.

SECTION XIII – DISPOSAL INFORMATION

WASTE DISPOSAL METHOD: Disposal should be in accordance with Federal, State and local regulations for water base coatings. Refer to section XV for more information.

SECTION XIV – TRANSPORTATION INFORMATION

DOT CLASSIFICATION: Non-hazardous.
UN NUMBER: None

SECTION XV – REGULATORY INFORMATION

SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION. This product contains none of the toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 and of CFR 372.

This product and its components are listed in or exempt from the TSCA inventory requirements.

SECTION XVI – OTHER INFORMATION

GLOBAL Encasement, Inc. warrants that the product or products described herein will conform with its published specifications. The products supplied by GLOBAL Encasement, Inc. and information related to them are intended for use by buyers having necessary industrial skill and knowledge. Buyers should undertake sufficient verification and testing to determine the suitability of GLOBAL Encasement, Inc. materials for their own particular purpose. Since buyer’s conditions of use of product are beyond GLOBAL Encasement, Inc.'s control, GLOBAL Encasement, Inc. does not warrant any recommendations and information for the use of such products. GLOBAL Encasement, Inc. disclaims all other warranties including the implied warranty of merchantability and fitness for any particular purpose in connection with the use of its products.

Information complies with New Jersey DOH Right-To-Know Labeling Law (N.J.A.C. 8:59 –5.1 & 5.2)
SECTION I – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Globe Caulk™
PRODUCT USE: Acrylic Caulking Compound
PRODUCT DESCRIPTION: 100% Acrylic Caulk, Water Base
Manufacturer: GLOBAL Encasement, Inc.
701 E. Santa Clara St., Ventura, CA 93001
Contact #:s: Tel. # (800) 266-3982 / Fax (800) 520-3291
Website Address: www.encasement.com

SECTION II – COMPONENT INFORMATION

Material or Component: CAS No.:
Acrylic Polymer: Not Hazardous
Water: 7732-18-5
Titanium Dioxide: 13463-67-7

OSHA PEL or ACGIH TLV: This product contains no hazardous ingredients as per OSHA 29 CFR 1910.1200

SECTION III – HAZARDS IDENTIFICATION

EFFECTS OF OVER EXPOSURE:
Inhalation: Vapor or mist can cause irritation of the nose, throat and lungs.
Eye Exposure: Possibly slightly irritating to eyes with direct contact.
Skin exposure: Possible skin irritant with prolonged or repeated contact.

HAZARD INDEX: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

SECTION IV – FIRST AID INFORMATION

EMERGENCY FIRST AID PROCEDURES: For inhalation, move subject to fresh air. For eye contact, flush with a large amount of water for at least 15 minutes. See a physician if irritation persists. Wash affected skin area with soap and water. If swallowed dilute by giving 2 glasses of water to drink. Call a physician. Never give anything by mouth to an unconscious subject.

SECTION V – FIRE AND EXPLOSION INFORMATION

FLAMMABILITY CLASSIFICATION: DOT - Not Regulated
Flash Point – Non Combustible
LEL - N/A
EXTINGUISHING MEDIA: N/A
UNUSUAL FIRE & EXPLOSION HAZARDS: None

SPECIAL FIRE FIGHTING PROCEDURES: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Material can splatter above 100°F.

SECTION VI – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Keep unnecessary people away. Scoop or shovel solid material into a suitable container for recovery or disposal. Keep spills and cleaning runoff out of municipal sewers or open bodies of water. Floors may be slippery; use care to avoid falls.

SECTION VII – HANDLING AND STORAGE INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING: Do not take internally. Use approved clothing when using Globe Caulk™. Also, follow all applicable OSHA & EPA, (etc.) regulations concerning normal latex paint spraying activities.

PRECAUTIONS TO BE TAKEN IN STORING: KEEP MATERIAL FROM FREEZING, PRODUCT MAY COAGULATE. Keep tightly covered. Material may develop bacterial odor on long-term storage if contaminated.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Wear suitable respirator (MSHA/NOSH approved or the equivalent), where exposure limits are exceeded.

VENTILATION: Mechanical local exhaust ventilation at point of containment release.

PROTECTIVE GLOVES: Impervious gloves for prolonged or repeated contact.

EYE PROTECTION: Chemical splash goggles (ANSI 2-87.1) or approved equivalent.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Paste</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>Flash Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Specific Gravity (water = 1.0)</td>
<td>1.06</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild scent</td>
</tr>
<tr>
<td>Lbs/Gal</td>
<td>8.8</td>
</tr>
<tr>
<td>pH</td>
<td>7.5-8.5</td>
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<tr>
<td>Viscosity (KU)</td>
<td>275,000-325,000</td>
</tr>
<tr>
<td>VOC, grams/liter</td>
<td>43</td>
</tr>
</tbody>
</table>

SECTION X – STABILITY AND REACTIVITY INFORMATION

STABILITY: Stable.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Will not occur.
CONDITIONS TO AVOID: Keep from freezing.
INCOMPATIBILITY: None reasonably foreseeable.
SECTION XI – TOXICOLOGICAL INFORMATION (will only print available data)

Carcinogenicity? NO
Refer to section VII for proper handling.
No other toxicological information available.

SECTION XII – ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Non-toxic
TERRESTRIAL TOXICITY: Non-toxic
No other ecological information available.

SECTION XIII – DISPOSAL INFORMATION

WASTE DISPOSAL METHOD: Disposal should be in accordance with Federal, State and local regulations for water base coatings. Refer to section XV for more information.

SECTION XIV – TRANSPORTATION INFORMATION

DOT CLASSIFICATION: Non-hazardous.
UN NUMBER: None

SECTION XV – REGULATORY INFORMATION

SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION. This product contains none of the toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 and of CFR 372.

SECTION XVI – OTHER INFORMATION

The information contained herein is to the best of our knowledge and belief has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained on our written contract of sale or acknowledgment.

Information complies with New Jersey DOH Right-To-Know Labeling Law (N.J.A.C. 8:59 –5.1 & 5.2)
MATERIAL SAFETY DATA SHEET
GEI Seam Tape

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GEI Seam Tape
PRODUCT USE: Seam and Crack Sealer
PRODUCT DESCRIPTION: Butyl Rubber Backed With Polyester Fabric
Manufacturer: GLOBAL Encasement, Inc.
701 E. Santa Clara St., Ventura, CA 93001
Contact #s: Tel. # (800) 266-3982 / Fax (800) 520-3291
Website Address: www.encasement.com

SECTION II – COMPONENT INFORMATION

OSHA PEL or ACGIH TLV: This product contains no hazardous ingredients as per OSHA 29 CFR 1910.1200

SECTION III – HAZARDS IDENTIFICATION

EFFECTS OF OVER EXPOSURE:
Inhalation: May be slightly irritating to the respiratory tract, inhalation very unlikely.

Eye Exposure: Direct contact; slightly irritating to eyes.

Skin exposure: Prolonged or repeated contact with coating may cause slight skin irritation.

Ingestion: Low order of acute oral toxicity. Ingestion unlikely.

HAZARD INDEX: 0=Minimal, 1=Slight, 2=Moderate, 3=Serious, 4=Severe

SECTION IV – FIRST AID INFORMATION

EMERGENCY FIRST AID PROCEDURES:
For inhalation: Could create a blockage. Get medical attention.
For eye and skin contact: Care should be taken in the removal of the adhesive. Get medical attention if too sensitive.
If swallowed: Unlikely, but if ingested could create a blockage. Get medical attention. Never give anything by mouth to an unconscious subject.

SECTION V – FIRE AND EXPLOSION INFORMATION

FLAMMABILITY CLASSIFICATION: DOT - Not Regulated
Flash Point – Non Combustible
LEL - N/A

EXTINGUISHING MEDIA: Water, foam, dry chemical, carbon dioxide
UNUSUAL FIRE & EXPLOSION HAZARDS: None

SPECIAL FIRE FIGHTING PROCEDURES: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Will not burn unless preheated.

SECTION VI – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: N/A
Disposal should be in accordance with Federal, state, and local regulations.

SECTION VII – HANDLING AND STORAGE INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING: Keep away from excessive heat. Material may flow and could create a duration contact burn on hand. Wash with soap and water after use, especially before eating, smoking or drinking.

PRECAUTIONS TO BE TAKEN IN STORING: Keep away from excessive heat.
  KEEP AWAY FROM CHILDREN.

SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: None required.
VENTILATION: None required.
PROTECTIVE GLOVES: Cotton or other protective gloves.
EYE PROTECTION: Use glasses or goggles.
OTHER: Long sleeves and long trousers to prevent skin contact.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Grey Tacky Tape Backed with Polyester
Odor: Mild Odor
Boiling Point: 314°F
Evaporation Rate: N/A
Vapor Density: N/A
Specific Gravity (water = 1.0): 1.25
Solubility in Water: Not Soluble
Percent Volatile by Volume: 0%
VOC: Zero
pH: N/A
Corrosivity: N/A

SECTION X – STABILITY AND REACTIVITY INFORMATION

STABILITY: Stable.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Combustion may yield a variety of compounds such as CO, CO2, simple hydrocarbons, acids, aldehydes, ketones.
CONDITIONS TO AVOID: Keep from excessive heat.
INCOMPATIBILITY: Strong acids or strong oxidizing agents.
SECTION XI – TOXICOLOGICAL INFORMATION (will only print available data)

Carcinogenicity? NO
Refer to section VII for proper handling.
No other toxicological information available.

SECTION XII – ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Non-toxic
TERRESTRIAL TOXICITY: Non-toxic
No other ecological information available.

SECTION XIII – DISPOSAL INFORMATION

WASTE DISPOSAL METHOD: Disposal should be in accordance with Federal, State and local regulations for water base coatings. Refer to section XV for more information.

SECTION XIV – TRANSPORTATION INFORMATION

DOT CLASSIFICATION: Non-hazardous.
UN NUMBER: None

SECTION XV – REGULATORY INFORMATION

SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION. This product contains none of the toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 and of CFR 372.

SECTION XVI – OTHER INFORMATION

The information contained herein is to the best of our knowledge and belief has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained on our written contract of sale or acknowledgment.

Information complies with New Jersey DOH Right-To-Know Labeling Law (N.J.A.C. 8:59 –5.1 & 5.2)
MATERIAL SAFETY DATA SHEET
GEI Fabric

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: GEI Fabric
PRODUCT USE: Reinforcing Fabric
PRODUCT DESCRIPTION: Polyester (polyethylene terephthalate polymer)
Manufacturer: GLOBAL Encasement, Inc.
701 E. Santa Clara St., Ventura, CA 93001
Contact #s: Tel. # (800) 266-3982 / Fax (800) 520-3291
Website Address: www.encasement.com

SECTION II – COMPONENT INFORMATION

OSHA PEL or ACGIH TLV: This product contains no hazardous ingredients as per OSHA 29 CFR 1910.1200

SECTION III – HAZARDS IDENTIFICATION

None

SECTION IV – FIRST AID INFORMATION

None

SECTION V – FIRE AND EXPLOSION INFORMATION

FLAMMABILITY CLASSIFICATION: DOT - Not Regulated
Flash Point – 500°F
LEL - N/A
EXTINGUISHING MEDIA: N/A
UNUSUAL FIRE & EXPLOSION HAZARDS: None

SPECIAL FIRE FIGHTING PROCEDURES: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion or oxygen deficiency. Material can splatter above 100°F.

SECTION VI – ACCIDENTAL RELEASE MEASURES

None

SECTION VII – HANDLING AND STORAGE INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING: Keep from open flame.
SECTION VIII – EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

N/A

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Physical Form:</th>
<th>Fabric</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>White</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>500°F</td>
</tr>
</tbody>
</table>

SECTION X – STABILITY AND REACTIVITY INFORMATION

STABILITY: Stable.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Will not occur.
CONDITIONS TO AVOID: Keep from freezing.
INCOMPATIBILITY: None reasonably foreseeable.

SECTION XI – TOXICOLOGICAL INFORMATION (will only print available data)

Carcinogenicity? NO
Refer to section VII for proper handling.
No other toxicological information available.

SECTION XII – ECOLOGICAL INFORMATION

AQUATIC TOXICITY: Non-toxic
TERRESTRIAL TOXICITY: Non-toxic
No other ecological information available.

SECTION XIII – DISPOSAL INFORMATION

WASTE DISPOSAL METHOD: Disposal should be in accordance with Federal, State and local regulations.

SECTION XIV – TRANSPORTATION INFORMATION

DOT CLASSIFICATION: Non-hazardous.
UN NUMBER: None

SECTION XV – REGULATORY INFORMATION

SARA TITLE III, SECTION 313, SUPPLIER NOTIFICATION. This product contains none of the toxic chemicals subject to the reporting requirements of the Emergency Planning and Community Right-To-Know Act of 1986 and of CFR 372.

SECTION XVI – OTHER INFORMATION

The information contained herein is to the best of our knowledge and belief has been compiled from sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Since conditions of use are beyond our control, we make no warranties, expressed or implied, except those that may be contained on our written contract of sale or acknowledgment.

Information complies with New Jersey DOH Right-To-Know Labeling Law (N.J.A.C. 8:59 –5.1 & 5.2)
GLOBAL Encasement, Inc.
FOR PRESERVING BUILT-UP ROOFS

1. GENERAL

1.01 SUMMARY
A. Provide labor, materials, equipment and supervision necessary to install (spray-apply, brush or roller) GLOBAL Encasement, Inc. coating systems as outlined in this specification to preserve and extend the service life of built up asphalt roofing and provide energy saving and lifecycle cost benefits.
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 product data sheet and literature verifying fire ratings and physical properties of materials.
B. Submit material safety data sheets.

1.03 QUALITY ASSURANCE
A. Supplier Qualifications: GLOBAL Encasement, Inc.’s fluid applied restoration system for preserving built-up roofs, as supplied by GLOBAL Encasement, Inc., is approved for use on the project.
B. The product manufacturer shall have been in business for a minimum of twenty (20) years.
C. Applicator Qualifications: The applicator can be approved by GLOBAL Encasement, Inc. to apply the system. GLOBAL Encasement, Inc.’s written verification of applicator approval is 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; full product name; and lot number(s).
B. Storage: Store materials between 40 F and 90 F with careful handling to prevent damage to products. If conditions exceed these ranges, special consideration in storage must be taken. Do not store at high temperatures or in direct sunlight.
C. Protection: Protect all materials from freezing and other 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. These minimum recommendations for material usage are for ideal conditions. The number of gallons per 100 square feet may need to increase due to uneven application, rough surface texture, wind conditions while spraying or other variables.
B. Wet insulation must be thoroughly evaluated and then addressed with removal or other measures. Consult a GLOBAL Encasement, Inc. technical consultant regarding the need for moisture surveys and other assessments.
C. Structural cracks should be referred to the appropriate GLOBAL Encasement, Inc. technical consultant.
D. Installation guide specifications assume that the deck, if plywood, has no dry rot, and is in sound condition, or has been repaired.
E. Do not apply materials unless surface to receive acrylic roofing system is clean, dry and prepared as specified.
F. Install all material in strict accordance with all published safety or applicable regulations of local, state, and/or federal agencies that have jurisdiction.
G. The entire system shall be fully adhered to the surface on which it is applied. Voids left under the system by creating bridges are not acceptable.
H. Do not proceed with application of coating or sealing materials when temperature is less than 50°F. No coating system shall be applied if precipitation or freezing temperatures are expected within 72 hours.
I. Heavy puddles of coating on the roof are not acceptable.
J. Instructions for use of all roofing materials and application equipment should be read and followed at all times.
K. As a general principle, to prevent the ponding of water, install additional drains as necessary or install drainage systems with sprayed polyurethane foam (SPF).

1.06 DETAIL WORK
This specification does not extensively outline procedures for preparation and finishing of drains, vents, ducts, flashing, parapet walls, sheet metal work, etc. The contractor should outline this work before work commences, and it shall be performed observing good trade practices.

II. PRODUCTS

2.01 GLOBAL ENCASEMENT, INC. RESTORATION SYSTEM
A. The roofing system is a 100% acrylic, spray, brush or roller applied GLOBAL Encasement, Inc. Restoration System manufactured by GLOBAL Encasement, Inc.
B. Underwriters Laboratories® 790 Class "A" Ratings TGFU #R15397

1. The roofing system shall have good resistance to ponding water.
2. The roofing system shall contain no plasticizers.
3. The roofing system shall contain no migrating fire retardants.
4. The roofing system shall have a Class A fire rating on a noncombustible deck when tested according to the procedures outlined in ASTM-108.
5. The roofing system shall also meet the following physical property requirements:

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>ASTM Method</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength, psi (Max @ 73° F)</td>
<td>D6083</td>
<td>Minimum 200</td>
</tr>
<tr>
<td>% Elongation @ Break (73° F)</td>
<td>D6083</td>
<td>Minimum 100</td>
</tr>
<tr>
<td>Wet Adhesion to Specified Substrate</td>
<td>D6083</td>
<td>Minimum 2.0 pli</td>
</tr>
<tr>
<td>Permeance, perms</td>
<td>D6083</td>
<td>Maximum 15</td>
</tr>
<tr>
<td>Volume Solids % Weight Solids %</td>
<td>D6083</td>
<td>&gt;50 &gt;60</td>
</tr>
</tbody>
</table>
2.02 RELATED MATERIALS
Flashing, adhesives, thinners, elastomeric 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
GLOBAL Encasement, Inc. materials are prescreened at the factory and can be applied with nylon bristle brushes, roller, or airless 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: RoofCoat™, AsbestoSafe® or Your Last Coat™
   Use self cleaning reversible spray tip size 0.019 to 0.035 (.032 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 EXAMINATION
A. Inspect surfaces that will receive the GLOBAL Encasement, Inc. Restoration System to make sure they are clean, smooth, sound, properly prepared, and free of moisture, dirt, debris, or other contamination.
B. Verify that all roof penetrations, mechanical equipment, cants, edge metal, and other on-roof items are in place and secure.
C. Verify that all critical areas around the immediate vicinity of the spray area are suitably protected.
D. Verify all roof drains are clean and in working order.
E. Verify that all air conditioning and air intake vents are suitably protected or closed.

3.03 PREPARATION
A. The surface must be clean, sound, dry and free of any materials that would inhibit proper adhesion of the coating or sealant. Achievement of this condition may require the use of industrial cleaner, scraping, power broom, vacuum or other means, and shall always be performed observing responsible trade practices.
B. On built-up roofs with mineral cap sheet, apply MPE™ Multi-Purpose Encapsulant surface sealer to the entire roof surface at the rate of at least 1/2 gallon per 100 square feet.

**Note:** MPE™ Multi-Purpose Encapsulant is a clear, flexible, waterbased, non-toxic, liquid applied primer and conditioner.

C. Repair all cracks, voids, holes or other surface imperfections in the roof field or flashing areas with 2) Globe Caulk™ or MPE™ Multi-Purpose Encapsulant as appropriate. After allowing the caulk or coating to dry (normally at least 24 hours), these areas shall be coated with any one of the GLOBAL Encasement, Inc. topcoats specified in Section IV. (RoofCoat™, AsbestoSafe®, or Your Last Coat™), applied at the rate of at least 2 gallons per 100 square feet. GEI Fabric shall then be imbedded in the wet coat of topcoat, with a second coat of topcoat being immediately applied on top of the fabric, at the rate of at least 1 gallon per 100 square feet. The polyester fabric shall extend 4-6 inches beyond the area in need of repair. Both the first and second coats of topcoat shall extend 2 inches beyond the edges of the polyester fabric.

D. All blisters shall be cut, dried out, re-adhered and sealed with appropriate roof product. After allowing sealant to dry, apply the topcoat and GEI Fabric as described in Section 3.03, Paragraph C of this guide specification.

E. Seal all HVAC ductwork joints as needed with Globe Caulk™ and GEI Fabric or GEI Seam Tape and Caps. Coat entire duct assembly with two 1 ½ gallon per square coats of topcoat.

F. Reseal around all mechanical equipment and roof penetrations with topcoat.

G. All loose seams, ridges and other membrane deficiencies of existing roof systems shall be fastened down and sealed with Globe Caulk™. Caulk must seal fasteners as well. After allowing sealant to dry, (normally at least 24 hours), apply topcoat and GEI Fabric as described in Section 3.03, Paragraph C of this guide specification.

H. All valley areas, drain areas, waterways or other areas where potential water accumulation is a concern, apply topcoat at the rate of 2 gallons per 100 square feet, approximately 46 inches wide. Immediately embed GEI Fabric into the wet coating, with a second coat of topcoat being immediately applied on top of the fabric at the rate of 1 gallon per 100 square feet. Both the first and second coats shall extend a minimum of 2 inches beyond the edges of the polyester fabric. In any large valley area, multiple widths of fabric should be used, overlapping them a minimum of 3 inches so the coating and fabric extend at least 6 inches up above the potential water line.

I. Allow coating to dry thoroughly (normally 6 to 24 hours), before proceeding to apply the remainder of the roofing system as described in section 3.04 of this guide specification.

### 3.04 APPLICATION

A. After thorough preparation as necessary, including the application of the MPE™ Multi-Purpose Encapsulant, the entire roof shall receive the GLOBAL Encasement, Inc. Restoration System consisting of 3 gallons per 100 square feet of topcoat, applied evenly in two separate coats.

B. The first coat shall be sprayed or roller applied at the rate of 1 ½ gallons per 100 square feet. Back roll initial coat.
C. After thorough drying of the first coat (normally 4 to 12 hours), the second coat shall be applied using a crosshatch technique, at the rate of 1½ gallons per 100 square feet.

D. All coating edges shall be cut in evenly in a uniform manner so as to provide an aesthetically pleasing appearance.

3.05 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 at the contractor's expense. 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.

Manufacturer's inspection or verification shall not constitute acceptance of responsibility for any improper application of material.

B. 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.

3.06 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. Roofcoat™, AsbestoSafe® or Your Last Coat™ TopCoat
2. MPE™ Multi-Purpose Encapsulant
3. PremeClean™ Industrial Cleaner
4. Globe Caulk™
5. GEI Seam Tape
6. GEI Fabric

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.

© GLOBAL Encasement, Inc. All rights reserved.
1. GENERAL

1.01 SUMMARY
A. Provide labor, materials, equipment and supervision necessary to install (spray-apply, brush or roller) GLOBAL Encasement, Inc. coating systems as outlined in this specification to preserve and extend the service life of metal roofing and provide energy saving and life-cycle cost benefits.
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 product data sheet and literature verifying physical properties of materials.
B. Submit material safety data sheets.

1.03 QUALITY ASSURANCE
A. Supplier Qualifications: GLOBAL Encasement, Inc.’s fluid applied restoration system for metal roofs, as supplied by GLOBAL Encasement, Inc., is approved for use on the project.
B. The product manufacturer shall have been in business for a minimum of twenty (20) years.
C. B. Applicator Qualifications: The applicator can be approved by GLOBAL Encasement, Inc. to apply the system. GLOBAL Encasement, Inc.’s written verification of applicator approval is required.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING
A. Containers and Packaging: Deliver materials in origin sealed containers, clearly marked with: GLOBAL Encasement, Inc.’s logo; full product name; and lot number(s).
B. Storage: Store materials between 40°F and 100°F with careful handling to prevent damage to products. If conditions exceed these ranges, special consideration in storage must be taken. Do not store at high temperatures in direct sunlight.
C. Protection: Protect all materials from freezing and other 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. These minimum recommendations for material usage are for ideal conditions. The number of gallons per 100 square feet may need to increase due to uneven application, rough surface texture, wind conditions while spraying and/or other variables.
B. Wet insulation must be thoroughly evaluated and then addressed with removal or other measures. Consult a GLOBAL Encasement, Inc. technical consultant regarding the need for moisture surveys and other assessments.
C. Structural cracks should be referred to the appropriate GLOBAL Encasement, Inc. technical consultant.
D. This Installation guide specification assumes that the deck, if plywood, has no dry rot, and is in sound condition, or has been repaired.
E. Do not apply materials unless surface to receive acrylic roofing system is clean, dry and prepared as specified.
F. Install all material in strict accordance with all published safety or applicable regulations of the manufacturer and/or local, state, and/or federal agencies that have jurisdiction.

G. The entire system shall be fully adhered to the surface on which it is applied. Voids left under the system by creating bridges are not acceptable.

H. Do not proceed with application of coating or sealing materials when temperature is less than 50°F. No coating system shall be applied if weather will not permit it to dry prior to exposure to precipitation or freezing or freezing temperatures are expected within 72 hours.

I. Heavy puddles of coating on the roof are not acceptable.

J. Instructions for use of all roofing materials and application equipment should be read and followed at all times.

K. As a general principle, to prevent the ponding of water, install additional drains as necessary or install drainage systems with sprayed polyurethane foam (SPF).

1.06 DETAIL WORK
This specification does not extensively outline procedures for preparation and finishing of drains, vents, ducts, flashing, parapet walls, sheet metal work, etc. The contractor should outline this work before work commences, and shall be performed observing good trade practices.

II. PRODUCTS

2.01 GLOBAL ENCASEMENT, INC. RESTORATION SYSTEM
A. The roofing system is a 100% acrylic, elastomeric, spray, brush or roller applied GLOBAL Encasement, Inc. restoration system manufactured by GLOBAL Encasement, Inc.

B. Underwriters Laboratories® 790 Class "A" Ratings TGFU #R15397


1. The roofing system shall have good resistance to ponding water.
2. The roofing system shall contain no plasticizers.
3. The roofing system shall contain no migrating fire retardants.
4. The roofing system shall have a Class A fire rating on a noncombustible deck when tested according to the procedures outlined in ASTM-E-108.
5. The roofing system shall also meet the following physical property requirements:

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>ASTM Method</th>
<th>RESULTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile strength, psi (Max @ 73°F)</td>
<td>D6083</td>
<td>Minimum 200</td>
</tr>
<tr>
<td>% Elongation @ Break (73°F)</td>
<td>D6083</td>
<td>Minimum 100</td>
</tr>
<tr>
<td>Wet Adhesion to Specified Substrate</td>
<td>D6083</td>
<td>Minimum 2.0 pli</td>
</tr>
<tr>
<td>Permeance, perms</td>
<td>D6083</td>
<td>Maximum 15</td>
</tr>
<tr>
<td>Volume Solids %</td>
<td>D6083</td>
<td>&gt;50</td>
</tr>
<tr>
<td>Weight Solids %</td>
<td>D6083</td>
<td>&gt;60</td>
</tr>
</tbody>
</table>
2.02 RELATED MATERIALS
Flashing, adhesives, thinners, elastomeric 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
GLOBAL Encasement, Inc. materials are prescreened at the factory and can be applied with nylon bristle brushes, roller, or airless 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) 328-0211.
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: RoofCoat™, AsbestoSafe® or Your Last Coat™
     Use self cleaning reversible spray tip size 0.019 to 0.035 (.032 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 EXAMINATION
A. Inspect surfaces that will receive the GLOBAL Encasement, Inc. restoration system to make sure they are clean, smooth, sound, properly prepared, and free of moisture, dirt, debris, or other contamination.
B. Verify that all roof penetrations, mechanical equipment, cants, edge metal, and other on-roof items are in place and secure.
C. Verify that all critical areas around the immediate vicinity of the spray area are suitably protected.
D. Verify all roof drains are clean and in working order.
E. Verify that all air conditioning and air intake vents are suitably protected or closed.

3.03 PREPARATION
A. The entire surface must be clean, sound, dry and free of any materials that would interfere with proper adhesion of the coating or sealant. All loose paint and loose rust must be removed prior to the application of coating or sealant. Achievement of this condition may require the use of industrial cleaner, scraping, wire brushing, power brooming, vacuuming, sweepblasting, sandblasting or other means, and shall always be performed observing responsible trade practices.
B. Spot prime rusty areas with R.I.P.™ Rust-Inhibiting Primer.
C. Metal that has corroded to the point of being weak or broken must be replaced.
D. Any new metal must be clean and oil-free. Prime ferrous metal with R.I.P.™ Rust-Inhibiting Primer at the rate of 1 gallon per 200 square feet.
E. Tighten or replace all fasteners where necessary. In no case shall joints or seams be allowed to separate greater than 1/16 inch.
F. Seal all joints and seams with GEI Seam Tape. Seal nails and fasteners with Caps.
G. All detail areas unable to be sealed with GEI Seam Tape and Caps must be sealed with Globe Caulk™.
H. After allowing sealant to dry, (normally at least 24 hours), apply TopCoat (either RoofCoat™, AsbestoSafe® or Your Last Coat™) to those areas at the rate of at least 2 gallons per 100 square feet. Immediately embed 4 inch, 6 inch or 10 inch polyester reinforcing fabric into the wet coating. Work the fabric into the coating to cause good saturation of the fabric. Immediately apply a second coat of TopCoat to the fabric at the rate of at least 1 gallon per 100 square feet. The edges of the reinforcing fabric shall be well sealed. Overlap the edges by at least 2 inches with the TopCoat.
I. Allow all coating to dry thoroughly, (normally 6 to 24 hours), before further application of the system.

3.04 APPLICATION
A. After thorough preparation as necessary, the entire roof shall receive the GLOBAL Encasement, Inc. restoration system consisting of 3 gallons per 100 square feet of TopCoat, applied evenly in two separate coats.
B. The first coat shall be sprayed or roller applied at the rate of 1½ gallons per 100 square feet. Back roll initial coat.
C. After thorough drying of the first coat (normally 4 to 12 hours), the second coat shall be applied using a crosshatch technique, at the rate of 1½ gallons per 100 square feet.
D. All coating edges shall be cut in evenly in a uniform manner so as to provide an aesthetically pleasing appearance.

3.05 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 at the contractor's expense. 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.

Manufacturer's inspection or verification shall not constitute acceptance of responsibility for any improper application of material.

B. 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.

3.06 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. RoofCoat™, AsbestoSafe® or Your Last Coat™ TopCoat
2. R.I.P.™ Rust-Inhibiting Primer
3. PremeClean™ Industrial Cleaner
4. GEI Seam Tape
5. Globe Caulk™
6. GEI Fabric

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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Since 1994, GLOBAL Encasement, Inc.’s innovative solutions to problems in buildings and materials management have saved our customers millions of dollars in abatement, repair and reapplication costs.

Founded on over three decades of applied field experience with common building materials, we know what works, what doesn’t work and why.

We offer free consultation and custom system designs. Call us at 1-800-266-3982 to learn more how you can benefit from our experience.

*Why Replace? – Just Encase!*

**GLOBAL Encasement, Inc.**

*World-Class Solutions for Better Building Environments*

701 E. SANTA CLARA ST., VENTURA, CA USA
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