Managing Asbestos Containing Materials 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 E84  Surface Burning Characteristics of Building Materials.
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
(Code of Practice for fire precautions in the design and construction of passenger carrying trains) For Tunnels and Station Vertical and Prone Surfaces, and Interior Vertical Surfaces.

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)

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701 E. SANTA CLARA ST., VENTURA, CA USA
(TEL) 800-266-3982 / (FAX) 800-520-3291
www.encasement.com
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.
ASTM D6083  Standard Specification for Liquid Applied Acrylic Coating Used in
Roofing.

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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

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World-Class Solutions for Better Building Environments
Testing and Approvals

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

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GLOBAL Encasement, Inc.

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701 E. SANTA CLARA ST., VENTURA, CA USA
(TEL) 800-266-3982 / (FAX) 800-520-3291
www.encasement.com
1. PRODUCT NAME

AsbestoSafe®

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

AsbestoSafe® is a high performance, water-based, acrylic, non-toxic, tough, abuse-, rust-, mildew-, fire- and chemical-resistant, non-mercuric, zero VOC coating that forms a waterproofing membrane. It can be applied over PrepLESS Primer™ to form an AsbestoSafe® GLOBAL Encasement, Inc. System for management-in-place of Asbestos-Containing Materials.

AsbestoSafe® is excellent for interior or exterior use and is suitable for application over most surfaces, walls, ceilings, ducts, pipes and roofing. It functions as a bridging encapsulant that securely and safely seals and encases hazardous fibrous materials on plaster, structural steel, Transite, Galbestos and various other fibrous materials including fiberglass, vermiculite or ceramic fiber.

AsbestoSafe® GREEN Features:

- Class A Fire Rated
- Does not affect the fireproof rating of the building
- Extremely tough and durable
- Mildew and mold resistant
- Waterproof
- Flexible
- Can be custom tinted almost any color

4. TECHNICAL DATA AND PROPERTIES

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

AsbestoSafe® has an elongation of 329% and a tensile strength of 200 psi (ASTM D412), superior flexibility (ASTM D522,A), high impact resistance (ASTM D2794), and adhesion (ASTM E736). This material is a UL Listed roofing/waterproofing coating. This material has passed ASTM E-108 (comparable to U.B.C. St’d 32-7) and meets the requirements for Class A.

AsbestoSafe® is a Class “A” Fire Rated Material and has passed ASTM E-119 testing over fireproofing insulation, ASTM E-84, E-162, and QUV G53.

This material has also passed European Standards Testing EN 13823 Reaction to fire tests for building products and EN ISO 11925-2 Reaction of fire tests – Ignitability of building products subjected to direct impingement of flame.

5. PRODUCT INSTALLATION

- AsbestoSafe® 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 2-4 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:

AsbestoSafe® coverage rate on a flat surface is:
- Interior System = 9 mil DFT @ 106 sq. ft./gallon
- Exterior System = 18 mil DFT @ 53 sq. ft./gallon

On Roofing:
- 10-Year System = 16 mil DFT @ 60 sq. ft./gallon
- 20-Year System = 32 mil DFT @ 30 sq. ft./gallon

<table>
<thead>
<tr>
<th>Product</th>
<th>Wet Mils</th>
<th>Dry Mils</th>
</tr>
</thead>
<tbody>
<tr>
<td>AsbestoSafe®</td>
<td>18</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>35</td>
<td>18</td>
</tr>
</tbody>
</table>

Coverage varies depending upon the porosity and texture of the surface being encased.

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 AsbestoSafe® TopCoat 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.

Why Replace? – Just Encase!

GLOBAL Encasement, Inc.
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Updated: July 2014
1. PRODUCT NAME

*The Original PrepLESS 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

**PrepLESS Primer™** is a clear water-based, non-toxic, flexible, zero VOC, super compliant architectural green coating primer-sealer-neutralizer that acts as a stabilizer for building surfaces that can be only marginally cleaned and where tenacious adhesion is needed. It applies milky white and dries clear, leaving a tacky finish ready to receive any of GLOBAL Encasement, Inc.’s topcoats, including **LeadLock™**, **Moldon’t™**, **AsbestoSafe®**, **Your Last Coat™**, **RoofCoat™** or **Clear Coat™**.

**PrepLESS Primer™ Features:**
- Class A Fire Rated
- Less Prep. Less Mess
- Zero Volatile Organic Content (VOC)
- Excellent for interior or exterior use
- Easy to use
- Waterproof
- Flexible
- Re-attaches loose, peeling, flaking paint

**PrepLESS Primer™** can be applied over Lead-Based Paint (LBP), Asbestos Containing Materials (ACM), and surfaces that are difficult to adhere to, such as cracked and painted plaster, concrete, masonry, stucco, fiberglass, vermiculite, ceramic fiber. It is excellent for interior and exterior walls, ceilings, trim, wallboard, sheet rock, ducts, pipes, roofing, all non-friction surfaces, treated or untreated wood, stone and metal. It is also excellent for making surface repairs. To bridge large cracks or patch holes, use **PrepLESS Primer™** with **Globe Caulk™** or **GEI Fabric** reinforcement.

4. TECHNICAL DATA

<table>
<thead>
<tr>
<th>Solids by volume:</th>
<th>48.4% (+/- 2%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight per gallon:</td>
<td>8.67 lbs</td>
</tr>
<tr>
<td>VOC:</td>
<td>Zero</td>
</tr>
<tr>
<td>Liquid appearance:</td>
<td>Milky white</td>
</tr>
<tr>
<td>Drying time:</td>
<td>½ to 1 hour (Depends on temperature and humidity)</td>
</tr>
<tr>
<td>Clean up:</td>
<td>Warm, soapy water</td>
</tr>
</tbody>
</table>

**PrepLESS Primer™** has an elongation of 4000% at 70°F; superior low temperature flexibility; 9,995 lbs/sf of adhesion strength; has passed ASTM E-84, E-162, ASTM E-119 testing over fireproofing insulation. This zero VOC product more than conforms to the minimum VOC requirements set forth by the SCAQMD (Southern California Air Quality Management District) and is considered a super compliant architectural zero VOC green coating.

5. PRODUCT INSTALLATION

- **PrepLESS Primer™** 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.
- Apply in temperatures between 50ºF and 100ºF.
- 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:**

**PrepLESS Primer™** may be brushed, rolled or spray applied. The coverage varies depending on porosity, mil thickness, and texture of the surface being encased. Calculated coverage rates on a flat surface are as follows:

- 6 mil DFT @ 120 sq. ft./gallon
- 7 mil DFT @ 102 sq. ft./gallon
- 8 mil DFT @ 90 sq. ft./gallon
- 9 mil DFT @ 80 sq. ft./gallon
- 10 mil DFT @ 72 sq. ft./gallon
- 11 mil DFT @ 65 sq. ft./gallon
- 12 mil DFT @ 60 sq. ft./gallon

**Spray Application:** Use self-cleaning reversible spray tip size .017-.025 (.019 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 **PrepLESS Primer™** 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.
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.

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

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 50º F and 100ºF.
- Apply only when weather conditions will permit drying before rain, dew or freezing temperatures.
- Follow manufacturer’s application guidelines.

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.

<table>
<thead>
<tr>
<th>Properties</th>
<th>Test Method</th>
<th>GEI Fabric Average Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight (per sq. yard)</td>
<td>Calculated by formula</td>
<td>3 ounces</td>
</tr>
<tr>
<td>Bursting Strength (lbs)</td>
<td>ASTM D3786 (Mullen)</td>
<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>Excellent</td>
<td></td>
</tr>
<tr>
<td>Ease of Saturation</td>
<td>Excellent</td>
<td></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
MATERIAL SAFETY DATA SHEET
AsbestoSafe®

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: AsbestoSafe®
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: CAS No.:
Inert Pigment: Mixture* 7732-18-5
Acrylic Polymer: Not Hazardous 13463-67-7
Water: 7732-18-5
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.

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 AsbestoSafe®. 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>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Form</td>
<td>Liquid</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>1.42</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild scent</td>
</tr>
<tr>
<td>Lbs/Gal</td>
<td>11.85</td>
</tr>
<tr>
<td>pH</td>
<td>9-10.5</td>
</tr>
<tr>
<td>Viscosity (KU)</td>
<td>100-120</td>
</tr>
<tr>
<td>VOC</td>
<td>Zero</td>
</tr>
</tbody>
</table>

VOC: Zero
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
PrepLESS Primer™

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PrepLESS Primer™
PRODUCT USE: Primer-Sealer-Neutralizer
PRODUCT DESCRIPTION: 100% 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

Material or Component: Styrene/acrylate copolymer: Not Hazardous
CAS No.: 7732-18-5
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. 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 PrepLESS Primer™. 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 Z-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>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
</tr>
<tr>
<td>VOC</td>
<td>Zero</td>
</tr>
<tr>
<td>Lbs/Gal</td>
<td>8.67</td>
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<tr>
<td>pH</td>
<td>8-9.5</td>
</tr>
<tr>
<td>Viscosity (KU)</td>
<td>95-105</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

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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

MPE™

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: 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>Physical Form:</th>
<th>Liquid</th>
<th>Odor:</th>
<th>Mild scent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Color:</td>
<td>Milky White</td>
<td>Lbs/Gal:</td>
<td>8.55</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>N/A</td>
<td>pH:</td>
<td>9-11</td>
</tr>
<tr>
<td>Specific Gravity (water = 1.0):</td>
<td>1.03</td>
<td>Viscosity (KU):</td>
<td>Water-like</td>
</tr>
<tr>
<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: 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
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

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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

Physical Form: Fabric  Flash Point: 500°F
Color: White

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

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Information complies with New Jersey DOH Right-To-Know Labeling Law (N.J.A.C. 8:59 –5.1 & 5.2)
GLOBAL ENCASEMENT, INC.
APPLICATIONS OVER ASBESTOS CONTAINING MATERIALS (ACM)

I. GENERAL

1.01 SUMMARY
A. Provide labor, materials, equipment and supervision necessary to install spray, brush or roller-applied specialty acrylic AsbestoSafe® system as outlined in this specification to safely encase Asbestos Containing Materials.
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 laboratory reports and literature verifying compliance with fire ratings, physical properties or approvals earned by specified materials.
B. Submit material safety data sheets on all materials.

1.03 QUALITY ASSURANCE
A. Supplier Qualifications: GLOBAL Encasement, Inc. products, as supplied by GLOBAL Encasement, Inc., shall be approved for use on the project.
B. The product manufacturer shall have been in business for a minimum of twenty (20) years.
C. Applicator Qualifications: GLOBAL Encasement, Inc. can approve the application contractor. GLOBAL Encasement, Inc.'s written verification of applicator approval shall be required.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING
A. Containers and packaging: Deliver materials in original sealed containers, clearly marked with GLOBAL Encasement, Inc.'s logo, brand name, product lot numbers and type of material.
B. Storage: Store materials between 40ºF and 90ºF with careful handling to prevent damage to products. Do not store for long periods in direct sunlight, at excessive temperatures or at temperatures below freezing.
C. Protection: Protect all materials from damage during transit, handling, storage, and installation.
D. Verify dates of manufacture and confirm that material is within 1 year shelf life.

1.05 PROJECT CONDITIONS
A. Environmental Requirements Conditions
1. These minimum recommendations for material coverages are for ideal conditions. The number of gallons to coat 100 square feet may need to be increased due to uneven application, rough surface texture, heat and wind conditions while spraying or applying and other variables.
2. Do not apply materials unless surface to receive encasement system is dry and surface compatibility testing has been successfully completed.
3. Install all material in strict accordance with all published safety or applicable regulations of local, state, and/or federal agencies that have jurisdiction.
4. The entire system shall be fully adhered to the surface on which it is applied.
5. Do not proceed with application of coating or sealing materials when surface temperature is less than 50ºF. No coating system shall be applied if precipitation or freezing temperatures are expected within 72 hours.
6. Instructions for use of all GLOBAL Encasement materials and application equipment should be read and followed at all times.
II. PRODUCTS

2.01 GLOBAL Encasement, Inc. Systems

A. The AsbestoSafe® system is an acrylic, spray, brush or roller-applied GLOBAL Encasement, Inc. system manufactured by GLOBAL Encasement, Inc. (GEI).

1. All AsbestoSafe® materials shall be warranted to be heavy-bodied (66.0% solids content), from GLOBAL Encasement, Inc. and shall be long lasting, highly-pure (zero VOC) materials that remain flexible, chalk resistant and resist cracking, peeling, algae and fungus that can cause future indoor air quality concerns.

2. To allow for building movement without cracking or disturbing fibrous materials, coating systems shall have passed testing to ASTM standards for adhesion, permeability, aged flexibility and with aged elasticity for the encasement system of over 250%.

3. Coatings shall be Class A Fire Rated, water-based, non-toxic, safe and easy to use, contain no hazardous ingredients by OSHA definition, comply with all known building codes and be non-flammable.

4. Coating materials shall have zero VOC (Volatile Organic Compound) content.

5. Coating materials shall not release health threatening toxic smoke and fumes in a fire and shall comply with all known building codes.

B. Coating Material shall have passed the following testing standards:

1. ASTM E-119 fire tests - demonstrating that applying a multi-layer GLOBAL Encasement, Inc. system over fireproofing does not adversely affect the fire proof rating of the fireproofing (3 hour test).

2. This material has passed ASTM-E-108 standard test method for fire tests of roof coverings (comparable to U.B.C. St’d 32-7) and meets the requirements for Class A.

An investigation of the external fire resistance characteristics of our water based acrylic topcoat (AsbestoSafe®) applied over a rated and un-rated 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 un-rated 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.

3. This material has also passed European Standards Testing EN 13823 Reaction to fire tests for building products and EN ISO 11925-2 Reaction of fire tests-Ignitability of building products subjected to direct impingement of flame.

4. UPITT Combustion Toxicity Test proving nothing toxic is released in a fire.

5. ASTM E-84 and E-162 fire tests for "Class A" – Surface Flammability and Burning Characteristics (Flame Spread = 0, Smoke Developed = 5). This is equal to NFPA 255, UL No. 723, ANSI 2.5 and U.B.C. 42-1.

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

7. "Pull-off Adhesion" test E-736 at 9,950 lbs. per square foot (69.1 lbs. per square inch).

8. ASTM D-1653 and E-96 "Water Vapor Permeability" (showing the rate that water vapor can pass through the system).
9. Impact Resistance, "Tensile Strength" exceeds 150 psi; "Elongation" exceeds 250%.
10. System is Mildew Resistant, Impact Resistant, Scrub Resistant, Non- Yellowing, Non-Caulking, highly Blister Resistant, Rust Resistant, highly Chemical Resistant and remains flexible after 1000 hour ASTM Accelerated Weather testing.
11. Water-Based materials (zero VOC) Volatile Organic Content of PrepLESS Primer™ = 0 g/L and AsbestoSafe® = 4 g/L.
12. Encasement systems shall comply with standards established by WR Grace for use over fireproofing materials.
13. Materials comply with applicable standards for installation on interior and/or exterior surfaces of a building.
14. Fully comply with the U.B.C. codes for installing encasement systems in elevator shafts and large air plenums or ducts.
15. Encasement systems provide additional waterproofing protection.
16. Materials are suitable for use over Transite siding.

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

2.03 EQUIPMENT RECOMMENDATIONS
GLOBAL Encasement, Inc. materials are prescreened at the factory and can be applied with nylon bristle brushes, roller, or airless spray equipment. Roller nap size will depend on the substrate being encased; ½ inch nap to 1¼ inch is recommended. Airless piston type spray equipment may also be used for application. Equipment selection will depend on the size and nature of the encasement project. Recommended airless piston-type spray equipment should have at a minimum 3000-psi, 3:1 ratio and a ¾-gallon capacity.

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

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

III. EXECUTION

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

3.02 PREPARATION
A. Protect floors, windows, mechanical items or any areas not to be coated to protect from over-spray or dripping.
B. All surfaces to be encased should be free of moisture.
C. Questionable areas should be tested for surface compatibility.
D. If product spray should occur on any surface not to be coated, wipe immediately to avoid staining or permanent adhering.
E. Fireproofing with visible water damaged areas shall be treated in one of the methods outlined in section 3.03, Application.

3.03 APPLICATION

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

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

   **MPE™ Multi-Purpose Encapsulant:**
   This product has been fully tested up to a dilution rate of 10:1.

   **PremeClean™ Industrial Cleaner Concentrate:**
   This product has been tested up to a dilution rate of 50:1.

A. To start the encasement application process, lock down any loose debris and fibers on the surfaces being encased by spraying a mist coat of PrepLESS Primer™ (3 to 12 wet mils thick). While spraying mist, coat over and seal all surfaces. This mist step will lock in-place the component being encased.

If there is an excessive amount of loose dirt and debris to be encased, allow this lock-down coat to dry for 30 to 60 minutes, then continue with the balance of the application of PrepLESS Primer™ as described below.

B. Apply PrepLESS Primer™ until wet coating thickness is great enough to yield a "6 to 12 dry mils" thickness uniform membrane. The PrepLESS Primer™ material seals, penetrates and stabilizes the insulation, preventing the movement of friable asbestos fibers and dirt. Apply the balance of the PrepLESS Primer™ material in two passes with the second pass perpendicular (at 90°) to the first pass.

   *Use wet mil gauge to monitor application thickness on a flat surface.*

C. Allow PrepLESS Primer™ to dry to touch in 2 to 4 hours before applying any topcoat materials. When applied, the liquid PrepLESS Primer™ material can penetrate and be absorbed into the substrate being encased. The PrepLESS Primer™ then shrinks as it dries, stabilizing the ACM.

   **Note:** PrepLESS Primer™ goes on milky white and dries clear, forming a flexible membrane that remains tacky when dry.

D. PrepLESS Primer™ coverage rate per gallon varies depending upon porosity, texture, condition of the surface, configuration of the surfaces being encased, tip size and spray pressure and the final mil thickness specified. Rough, highly textured insulation surfaces often have a developed area that is 1½ to 3 times the flat-surface area.

Approximate coverage rates for PrepLESS Primer™ on various building surfaces are listed below:

1. Applied over a smooth, flat surface at 100 SF per gallon (16 wet mils) = 7-8 dry mils thickness.
2. Flat transite surfaces - 90 to 110 SF per gallon (14-16 wet mils = 7-8 dry mils)
3. Porous, textured surfaces - 70 to 100 SF per gallon (16-20 wet mils = 7-8 dry mils)
4. Rough, cementitious surfaces - 40 to 70 SF per gallon (20-30 wet mils = 7-8 dry mils)
5. Rough, soft ACM surfaces - 30 to 50 SF per gallon (25-35 wet mils = 7-8 dry mils)
6. Oversprayed ACM – 90 to 110 SF per gallon (14-16 wet mils = 7-8 dry mils)
7. Impact or wear areas, thicker applications up to 40 dry mils can be applied to seal, stabilize and protect the surface.

E. If there is evidence of water damage to the fireproofing or if delamination or repairs are needed, the use of mechanical fasteners and/or GEI Fabric reinforcement is recommended. This can be done following the installation of PrepLESS Primer™.

If using GEI Seam Tape, apply a long piece before installing fastener through the insulation. The size and type of fasteners that are applied through insulation (Hilti type or equal) is determined by the substrate material and thickness of insulation (consult with your GLOBAL Encasement, Inc. Representative for recommendations).

If GEI Fabric is used, apply it after the PrepLESS Primer™ coat dries. Cut the GEI Fabric to size, dip into PrepLESS Primer™ material then apply over surfaces that need reinforcement, overlap edges by 2-3". Allow to dry 2 to 3 hours before applying AsbestoSafe® TopCoat.

F. Next spray apply AsbestoSafe® until wet coating thickness is great enough to yield the desired dry mil thickness. Apply topcoat in two passes; with the second pass perpendicular (at 90°) to the first pass. Allow AsbestoSafe® to dry before applying additional materials. (The environment in a containment area can extend dry times.) Because the PrepLESS Primer™ has already stabilized the surface, the use of brushing or back rolling after spraying AsbestoSafe® can help to fill visible voids and holidays while conserving the use of materials.

A finished encasement system shall be seamless and form a continuous, flexible jacket around the Asbestos Containing Materials (no voids or holidays in finished coating surface).

G. AsbestoSafe® coverage rate per gallon varies depending upon porosity, texture, condition of the surface and the mil thickness. Rough, highly textured insulation surfaces require more material than flat or smooth non-porous surfaces.

Calculated coverage rates for AsbestoSafe® on a flat, smooth non-porous surface at 100 SF per gallon (applied @ 16 wet mils) = 9.7 dry mils per coat. Approximate coverage rates for AsbestoSafe® on various ACM surfaces are listed below:

1. Over flat Transite surfaces – 90-100 SF per gallon (14-16 wet mils = 9-10 dry mils)
2. Porous or textured surfaces – 70-90 SF per gallon (17-21 wet mils = 9-10 dry mils)
3. Rough, cementitious surface – 30-70 SF per gallon (21-30 wet mils = 9-10 dry mils)
4. Rough, soft ACM surfaces – 30-50 SF per gallon (25-35 wet mils = 9-10 dry mils)
5. Oversprayed ACM – 90-110 SF per gallon (14-16 wet mils = 9-10 dry mils)
7. Some surfaces require two applications of AsbestoSafe® at 9-10 dry mils (16 wet) per coat.
8. Total protection of 16-20 dry mil thickness of topcoat is required for 20-Year Limited Warranty.
H. Protect from overspray during the installation process. Once PrepLESS Primer™ is applied, the asbestos fibers are locked in place and clean air sampling can be done. Follow all applicable state and/or federal OSHA Guidelines. To prevent damage to the coatings when removing all plastic and masking tape use a utility knife to first cut at coating edges. The circulation of air helps water-based materials to dry more rapidly.

3.04 FIELD QUALITY REQUIREMENTS
A. Manufacturer’s Field Services: Inspection by a GLOBAL Encasement, Inc. Authorized Sales Representative can be made to verify the proper installation of the system. Any areas that do not meet the minimum standards for application as specified herein shall be corrected. On a case-by-case basis, payment of expenses incurred by the GLOBAL Encasement, Inc. Representative may be the responsibility of the building owner and/or contractor.

GLOBAL Encasement, Inc.’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.

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

IV. MATERIALS
The following materials listed in these recommendations are available from:

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

1. AsbestoSafe® TopCoat
2. PrepLESS Primer™
3. MPE™ Multi-Purpose Encapsulant
4. GEI Seam Tape
5. 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.