

FORMULA



# ASBESTOS BRIDGING & PENETRATING ENCAPSULANT

WHITE

100% Acrylic High-Quality Eco-Friendly Interior Coating for Encapsulating Asbestos Fibers



**Use on many types of Asbestos Containing Materials (ACM) including:** Fireproofing (SFRM), Acoustical Soundproofing, Pipe Insulation (TSI), Cement Board on sloped or vertical surfaces, Galbestos, Stucco, Wall & Ceiling Texture and Asbestos Containing Paint



**Non-Harmful**  
Zero VOCs\*  
Zero HAPs  
Low Odor



**Ideal for Specifications:**  
AIA 02 82 00 Asbestos Remediation  
or  
AIA 02 82 13 ACM Encapsulation



5 Gallons (18.927L)

**ENCAPSULATION & ASBESTOS ABATEMENT**

Sentinel Asbestos Bridging & Penetrating Encapsulant is designed to provide a permanent solution for the containment of asbestos-containing materials (ACM). Using Sentinel Asbestos Bridging & Penetrating Encapsulant on a properly planned and prepared project can stabilize damaged ACM, prevent deterioration that creates future hazards, and satisfy government regulations for asbestos abatement.

Sentinel Asbestos Bridging & Penetrating Encapsulant is a water-based, ultra-low VOC coating that can be used to both penetrate and bridge ACM. Encapsulation provides an exceptionally durable and long-lasting barrier that can manage a broad range of ACM types and conditions in-place. With Sentinel Asbestos Bridging & Penetrating Encapsulant, project managers and abatement contractors can make encapsulation the right plan for their abatement. Ordinary paint is not formulated for the level of performance needed to meet the challenges of asbestos abatement.

Asbestos and Abatement can be complex and confusing. Sentinel can simplify, clarify and our customers benefit from our decades of experience. But that knowledge doesn't fit on a label. Contact Sentinel's technical team with questions and for more information at 800-373-0633.

**ABATEMENT METHODS INCLUDE ENCAPSULATION, & ENCLOSURE, AND/OR REMOVAL**

When Sentinel Asbestos Bridging & Penetrating Encapsulant is applied as part of a properly planned and conducted project, the result is a durable barrier that contributes to abatement - the process of making a structure safe or free from a hazard. To achieve abatement of ACM, there are three acceptable work practices: removal (and proper disposal of the asbestos); enclosure (a hard attached barrier such as wallboard); or encapsulation (a liquid applied barrier coating, also called encasement). To borrow from our home state's rules: encapsulation is "Treatment of asbestos-containing materials (ACM) with a sealant material that surrounds or embeds asbestos fibers in an adhesive matrix to prevent the release of fibers. A bridging encapsulant creates a membrane over the surface. A penetrating encapsulant penetrates the material and binds its components together." National and state definitions for abatement of asbestos usually are very similar. Sentinel Asbestos Bridging & Penetrating Encapsulant can be diluted and used to penetrate or used at full strength to bridge ACM. For some projects that manage asbestos in-place, the application of a penetrating encapsulant is followed by a bridging encapsulant to prevent future asbestos deterioration and potential occupant exposure. Other projects will only require bridging, and this determination should be made by a qualified asbestos professional.

**ENCAPSULATION TO MEET AND SURPASS REQUIREMENTS & SPECIFICATIONS**

Sentinel Asbestos Bridging & Penetrating Encapsulant has been independently tested to demonstrate that it meets and surpasses frequently specified national and state/provincial requirements set out for abatement via encapsulation including: United States (Environmental Protection Agency), Canada (Health Canada, Canadian Centre for Occupational Health & Safety), the United Kingdom (Health Safety Executive), Australia (Asbestos Safety and Eradication Agency), and New Zealand (WorkSafe NZ). Performance testing reports and data are available, including for key performance characteristics that were central to the Battelle evaluation done under EPA contract: impact resistance, minimized flame spread & smoke generation, no toxic gas release of concern during a fire, and lasting surface integrity.

**WARRANTY**

Seller makes no warranty, expressed or implied, nor accepts any responsibility for any direct or consequential damages beyond the purchase price because seller cannot control users handling and use, or effect of that use.

**DESCRIPTION**

Sentinel Asbestos Bridging & Penetrating Encapsulant is a water-based "superpaint" that has been formulated to solve concerns about asbestos. It does what ordinary paints are not robust enough to do. Sentinel BPE is a high solids, high-viscosity, multi-polymer water-based emulsion. This product is low-odor, ultra low-VOC (Volatile Organic Content), and contains no HAPs (Hazardous Air Pollutants) or solvents. For more safety & health, features & functions, and precautionary information, it is very important that users review the Product Data Sheet and Safety Data Sheet.

**BEFORE WORK EVALUATION**

Do not encapsulate materials that are delaminated, deteriorated or that show extensive damage that cannot be repaired. Read entire label before use. Appropriate use, necessary repairs, coverage rates and dry film thickness should be determined on site by a qualified asbestos professional. Testing to ensure the suitability of encapsulation as an abatement solution should be performed per ASTM E1494-18 Standard Practice for Testing Physical Properties of Friable Surfacing Materials.

Service conditions determine which coatings may be used for specific applications. These include: temperature, humidity, atmospheric exposure, etc.

WARNING! If you scrape, sand, or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to [www.epa.gov/lead](http://www.epa.gov/lead).

**APPLICATION INFORMATION**

Do not disturb Asbestos Containing Materials when preparing for work. Perform repairs as directed, then ensure surfaces are clean. Mix Sentinel Asbestos Bridging & Penetrating Encapsulant thoroughly with a drill and mixing paddle before application. The coating should be uniform in color and texture before spraying.

**APPLICATION TOOLS**

This product should be applied with professional level airless sprayers.\* Recommended High-Pressure Tip Size: .017 Recommended P.S.I.: 2500 - 3000 P.S.I. Recommended Low-Pressure Tip Size: .017 Recommended P.S.I.: 1200 - 1500 P.S.I. \*Tested on a Titan Impact 440X Sprayer fitted with an RX-80 3600 PSI Spray Gun with a low pressure HEA TR1 517 tip.

**APPLICATION**

As a Penetrating Encapsulant: Mix Sentinel BPE using 1 part water to 1 part BPE. Mix thoroughly with a drill and mixing paddle. The diluted product should be uniform in color and texture. Using airless spraying equipment and the settings above, spray the substrate until saturated. Allow time for the material to absorb into the substrate between passes, and spray until absorption stops.

As a Bridging Encapsulant: Ensure the product is mixed thoroughly, to an uniform color and texture with a drill and mixing paddle. Using airless spraying equipment and the settings listed above, apply Sentinel BPE to the substrate at full strength.

**COVERAGE**

For bridging encapsulation: 100 sq. ft./gallon. It is recommended that applicators follow the US EPA's primary instructions regarding coating thickness as stated in the "Purple Book" on asbestos [EPA Guidance for Controlling Asbestos-Containing Materials in Buildings (EPA 560 / 5-84024, June 1985)]: "No more than 100 sq. ft. / gal." of "a continuous, unbroken coating" that is "considerably thicker than recommended for painting". (3.78L per 9.3m<sup>2</sup>)

Ideal dry film thickness of Sentinel Asbestos Bridging & Penetrating Encapsulant at this coverage rate is 6 mils. The wet film thickness is 15-16 mils.

**COVERAGE CONTINUED**

ACM can have a wide range of characteristics, including density, porosity, and surface profile. Higher adsorption from low density, highly porous ACM will reduce spread rates, requiring more coating. Coverage as a penetrating encapsulant is highly variable dependent on the material.

Structural factors such as corrugation (increases surface area) and profile (thin joists and beams are difficult to coat without overspray) can require more encapsulant.

**THINNING & TINTING**

Apply Sentinel Asbestos Bridging & Penetrating Encapsulant at full strength to bridge. When used as a Penetrating Encapsulant, mix 1:1 with clean water. Up to two (2) ounces of universal colorant per gallon may be added. Do not field tint.

**DRY TIME**

Sentinel Asbestos Bridging & Penetrating Encapsulant will generally be dry to the touch in 2 hours and can be recoated after 4 hours.

**CLEAN UP**

Clean painting tools and spills with warm, soapy water while product is still wet. Clean spray equipment according to manufacturer directions. Clean any spills or splatters immediately with a wet, soapy cloth. Remove cured encapsulant using Sentinel 206 Peroxystrip Paint & Coatings Remover.

**STORAGE & DISPOSAL**

Protect Sentinel Asbestos Bridging & Penetrating Encapsulant from freezing. Store product in a dry place at temperatures between 40°F - 90°F. Dispose of excess product or empty container to a licensed waste handling facility in accordance with local, regional, national and/or international regulation.

**PRECAUTIONS & LIMITATIONS**

**WARNING:** This product can expose you to chemicals including Titanium Dioxide, which are known to the state of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**DANGER** (Contains: Titanium Dioxide, Silica: Crystalline, quartz)

**HAZARD STATEMENTS:** May cause cancer (inhalation of dust)  
**PRECAUTIONARY STATEMENTS:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, chemical goggles, & face protection. If exposed or concerned: Get medical advice. Store locked up. Dispose of contents/container to licensed waste handling facility, in accordance with local, regional, national and/or international regulations.

**FIRST AID:** IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing. IF ON SKIN: Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen. IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

**HANDLING AND STORAGE:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep container closed when not in use. Store in a dry, well ventilated area. Keep from freezing. Store locked up.

KEEP OUT OF REACH OF CHILDREN  
FOR PROFESSIONAL USE ONLY  
REFER TO SDS BEFORE USE



Lot # 23424