

ABC[®]

Professional Asbestos Encapsulant/Sealant

10 Point Specification



1. Product Name

A-B-C[®] asbestos binding compound Encapsulant/Sealant System for Asbestos-Containing Materials

2. Manufacturer

Fiberlock Technologies, Inc.
150 Dascomb Road
Andover, MA 01810 USA
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www.fiberlock.com

3. Product Description

BASIC USE

- A-B-C is a high-solids water-based encapsulant/sealant system designed for multiple uses including penetrating and bridging for most types of asbestos-containing materials (ACM).
- In 1978, A-B-C was tested by Battelle Laboratories of Columbus, Ohio, and found to meet or exceed the requirements for the effective encapsulation of asbestos-containing materials.
- A-B-C is class "A" fire rated.

COMPOSITION & MATERIALS

A-B-C is a water-based coating formulated with advanced 100% acrylic resins.

SIZE

Packaged in 5 gallon pails and 55 gallon drums.

YIELD

The coverage of A-B-C varies depending upon the porosity of the substrate. As a penetrating encapsulant for fibrous asbestos, estimate 50-75 sq.ft./gal. after dilution. For well-adhered asbestos, A-B-C should be applied full strength as a bridging agent at a rate of 50-100 sq. ft./gal.

COLORS

A-B-C is available in off-white (#6421), clear (#6422) and green (#6423), or can be custom tinted.

LIMITATIONS

Do not use A-B-C on surfaces which are not in a condition suitable for encapsulation. Do not apply A-B-C when the atmosphere and surface temperatures are below 50°F. The maximum surface temperature limits for A-B-C are 180°F constant, or 250°F intermittent.

4. Technical Data

PHYSICAL/CHEMICAL PROPERTIES

Refer to Table 1 for physical and chemical properties of A-B-C.

APPROVALS

- A-B-C has been tested at Battelle Laboratories, and met or surpassed the EPA requirements for effective asbestos encapsulation.
- German approval: iBMB-TU- Braunschweig.

FIRE RATING

A-B-C has a Class "A" fire rating when tested in accordance with ASTM E84-81a, with a Flame Spread of "10" and Smoke Developed of "5".

ENVIRONMENTAL CONSIDERATIONS

A-B-C is a VOC compliant water-based non-toxic coating.

5. Installation

PREPARATORY WORK

Prior to application, it is important to determine if the existing asbestos matrix is well-adhered to the substrate.

SURFACE PREPARATION

Correct any surface defects and clean all surfaces thoroughly with an approved vacuum or wet rag. Do not air clean or sand surfaces, this could increase asbestos exposure.

MIXING

Stir A-B-C thoroughly to achieve a uniform consistency.

APPLICATION METHODS

A-B-C can be successfully applied using all professional brands of airless spray equipment. See Table 2 for recommended settings.

ENCAPSULATION INSTRUCTIONS

PENETRANT- For most fibrous asbestos applications such as "cotton candy" style fireproofing or compressed acoustic material less than 2 inches thick, add 1 part water to 1 part ABC. Using the proper spray equipment settings listed, apply ABC to the ACM until saturated. Multiple passes may be required, allowing time between passes for dissipation of the solution into the matrix. Full saturation is achieved when the ACM will not absorb any more of the encapsulant into the matrix. Coverage, depending on thickness and porosity of the material, can vary between 50 - 75 sq. ft./gal.

BRIDGING AGENT- A qualified asbestos professional should determine the necessary dry film thickness for individual abatement projects. The necessary dry film thickness of a bridging encapsulant for asbestos containing materials (ACM) will vary from project to project as ACM

Properties

Product Specifications

Solids by Weight ± 2%:	51.4%
Solids by Volume ± 2%:	44.0%
Viscosity at 70°F:	60-75 Krebs Units
Specular Gloss:	82° ± 5 @ 60°
Flash Point:	Non-combustible
Shelf Life:	36 Months Min. (Original Sealed Containers)
Calculated VOC:	56-64* grams/liter
* ABC Calculated VOC dependent on color	

ABC complies with the requirements for LEED[®] EQ Credit 4.2, low-emitting materials: paints and coatings.

Coverage

Smooth Surfaces:	50-100 ft ² /gal
Porous Surfaces:	50-75 ft ² /gal

Drying Times (@ 70 - 77°F , 50% R.H.)

To Touch:	1-2 hours
To Recoat:	12-24 hours
Minimum Application Temperature:	50°F (10°C)

Available Package Sizes

5 gallon containers	
Weight Per Gallon ± 0.5 lbs:	9.6 lbs/gal

Product Testing

Fire Rating:	ASTM E84 Class A
Flame Spread:	10
Fuel Contribution:	10
Smoke Density:	5
Test Facility:	Southwest Research Institute

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can have a wide range of characteristics, including density, porosity, and surface profile. In the EPA's Guidance for Controlling Asbestos-Containing Materials in Buildings (EPA 560 / 5-84024, June 1985), the primary instruction regarding dry film thickness states that when encapsulating ACM, the coating is to be applied "considerably thicker than recommended for painting. Coverage should be no more than 100 sq. ft. per gallon and should create a continuous, unbroken coating" (Section 5.1.3, page 5-8).

For bridging applications, apply ABC at full strength with an airless sprayer in accordance with the settings listed below. Typical bridging applications are applied at a coverage rate of 75-100 sq. ft./gallon, which yields a dry film thickness between 6-10 mils on hard, cementitious ACM. For more information, contact Fiberlock or visit our website for the complete Specification for ABC.

REMOVAL/LOCKDOWN

Removal is recommended for loosely adhered ACM. Mix 4 parts water to 1 part ABC and apply to ACM. ABC will facilitate removal by penetrating into the ACM keeping it moist and sticky. After the ACM has been removed, apply 1 part ABC diluted with 1 part water to seal residual fibers left on substrate.

SOIL ENCAPSULATION INSTRUCTIONS

PENETRANT- For encapsulation of soil contaminated with asbestos, add 2 parts water to 1 part ABC. Saturate the soil by applying liberally over the intended areas. Multiple coats can be applied in one application. Coverage is dependent upon the moisture content of the soil. If the soil is damp, expect higher coverage rates.

BRIDGING AGENT- Apply ABC at full strength with an airless sprayer in accordance with the settings listed. If the encapsulated surface is expected to receive repeated foot traffic, apply multiple coats for additional protection.

PRECAUTIONS

A-B-C must be applied when the atmosphere and surface temperatures during application and for 12 hours thereafter are above 50°F. Protect from freezing. Keep container tightly sealed when not in use. For professional use only.

6. Availability and Cost

AVAILABILITY

A-B-C is available through a network of authorized abatement distributors. Contact Fiberlock Technologies, Inc. at 1-800-342-3755 to locate a distributor in your area.

COST

Material cost can be estimated by dividing the price per gallon from an authorized distributor by the square footage for the particular application.

7. Warranty

Fiberlock Technologies, Inc., warrants A-B-C Asbestos Binding Compound for a minimum of ten (10) years from the date the product is applied to encapsulate asbestos as prescribed in Fiberlock's latest product literature. The warranty described in this paragraph, expressed or implied, is including but not limited to the implied warranties of the salability and fitness for a particular purpose. User shall determine the suitability of A-B-C's use and assume any and all risks and liabilities which may arise in connection with the application of A-B-C. This warranty is extended only to the purchaser of A-B-C and does not apply to any damages which are a direct result of improper surface preparation and or application, including, but not limited to:

1. The failure to properly apply A-B-C Asbestos Binding Compound to a sound surface, which has been cleaned of foreign matter and dry at the time of application.
2. The failure to apply A-B-C Asbestos Binding Compound during non-freezing temperatures appropriate for the product application.
3. The failure to apply A-B-C Asbestos Binding Compound in full accordance with Fiberlock Technologies written application instructions and guidelines.

This warranty does not extend to, nor shall Fiberlock Technologies be liable for any damage

resulting from any abuse of the encapsulated surface by tenants or occupants, improper maintenance, water damage, or other conditions beyond Fiberlock Technologies' control. The sole and only liability under this warranty shall be, at Fiberlock Technologies' option, either to replace the product if proved defective or to refund the purchase price paid. The purchaser of this product must notify Fiberlock at 150 Dascomb Road, Andover, Massachusetts 01810 (978-623-9987) within 45 days to advise of any suspected manufacturing defects. This warranty gives the purchaser specific legal rights and possible additional rights which may vary from state to state.

8. Maintenance

If surfaces coated with A-B-C are damaged, repair and re-apply A-B-C immediately. Inspect for damage periodically.

9. Technical Services

Fiberlock Technologies, Inc. employs a knowledgeable factory trained team of field representatives. In addition, technical questions can be answered by one of our full time technical service representatives by calling 800-342-3755. Complete specifications and technical information can also be obtained online at www.fiberlock.com.

10. Filing System

Additional information is available upon request.

TABLE 1 PHYSICAL/CHEMICAL PROPERTIES OF A-B-C ASBESTOS BINDING COMPOUND

Property	A-B-C
Percent Solids	60 ±2% by weight
Volatile	Principally water
Average Particle Size	0.2 microns
Weight at 78°F	9.1 ±0.2 lbs/gal
Viscosity at 78°F	60-65 KU
Flash Point	Noncombustible (Water-based)
Minimum Shelf Life at 78°F	36 months
Finish	moderate gloss
Drying time at 78°F	1-2 hours

TABLE 2 RECOMMENDED SPRAY SETTINGS FOR A-B-C

Penetrating	Bridging	Removal/Lockdown
Pressure: 1300 - 1400 psi	Pressure: 2200 - 2300 psi	Pressure: 2200 - 2300 psi
Hose length: 100 feet	Hose length: 100 feet	Hose length: 100 feet
Hose diameter: 1/4 inch	Hose diameter: 1/4 inch	Hose diameter: 1/4 inch
Tip/orifice size: .017 - .021	Tip/orifice size: .017 - .023	Tip/orifice size: .015 - .025
Fan size: 12 inches	Fan size: 12 inches	Fan size: 12 inches