

SPECIFICATION FOR THE LIQUID
ENCAPSULATION OF ASBESTOS
CONTAINING MATERIALS
USING:

A-B-C[®]

Asbestos Binding Compound

Prepared by:

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Notice:

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 of A-B-C, (Asbestos Binding Compound) are beyond our control. Neither Fiberlock Technologies, Inc. nor its agents shall be responsible for the use or results of use of this specification or any procedures or apparatus mentioned. The representations of this specification must be viewed as the minimum in conformance. All existing, applicable Occupation Safety and Health Administration (OSHA) federal, state and local regulations should supersede these recommendations.

PART 1 - GENERAL:

1.1 Work Included:

- 1.11 The purpose of this specification is to cover proper application procedures and use of Fiberlock Technologies' A-B-C (Asbestos Binding Compound) for the effective encapsulation of asbestos containing spray applied building materials.

PART 2 - PRODUCTS:

2.1 MATERIALS:

2.1 Liquid Encapsulating Coating:

- 1. A-B-C (Asbestos Binding Compound)

2.2 LIQUID ENCAPSULANT PRODUCT REQUIREMENTS:

2.21 A-B-C has the following characteristics:

- 1. Non-toxic, water-borne liquid.
- 2. Coverage: 75-100 sq. ft./gal. (depending on the porosity of substrate)
- 3. Flash point: Tag Closed Cup, Non-combustible (water based).
- 4. Dry Time (varies with temperature, humidity, and film thickness):
To touch @ 77°F, 1-2 hours; Full cure, 12- 24 days.
- 5. Shelf Life: @ 77°F, 36 months minimum, (in original factory sealed containers).
- 6. Odor: Applied indoors, virtually odorless.
- 7. Health Rating - HMIS: Hazardous Material Identification System, 0
- 8. Solids. By weight: 60 +/-2%
- 9. Viscosity @ 77°F: 60-65 Krebs Units.
- 10. Weight per gallon @ 77°F: 9.1 +/- 0.2 lbs./gal.
- 11. Finish: moderate gloss
- 12. Impact Resistance: Excellent
- 13. Film Flexibility: Excellent
- 14. Water resistance of dry film: Excellent
- 15. Fire rating ASTM E84-81a: Class "A"
(Southwest Research Institute)

Flame Spread: 10
Fuel Contribution: 10
Smoke Density: 5

2.22 A-B-C was tested at Battelle Laboratories in Columbus, Ohio under U.S. Government Contract #68-03-2552-T2005, and found to be accepted by the Environmental Protection Agency (EPA).

3.0 MATRIX EVALUATION:

Follow the procedures outlined below to determine the adhesion / cohesion strength of the existing asbestos containing material prior to applying A-B-C.

3.1 Adhesion/Cohesion Test

3.12 Equipment Required:

- one cup, 3.25 inches in diameter and 0.5 inches deep, with a small hook penetrating the center of the cup bottom and secured with a nut and washer.
- A two component urethane foam kit.
- A soft weight (e.g. bean bag) with a mechanism to attach the weight to the hook on the cup. The weight and mechanism together must weigh exactly 2 pounds.

3.13 Fill the cup with urethane foam to overflowing and immediately press the foam-filled cup against the ACM. Allow the foam to cure, and attach the 2 pound weight to the hook.

3.14 If the cup and the foam remain adhered to the fireproofing for a period of two minutes, the insulation is suitable to encapsulate with A-B-C. If the weight added to the cup causes the fireproofing to de-laminate at any time during the two minute interval, the ACM should not be encapsulated.

4.0 MATERIAL PREPARATION:

4.1 Mix A-B-C thoroughly.

4.2 Dilute A-B-C according to the thickness and porosity of the Asbestos Containing Material (ACM). For very porous applications, increase the amount of water to achieve desired penetration of the ACM.

5.0 APPLICATION:

5.1 Penetrant: For most applications add 1 part water to 1 part A-B-C. Apply at an application rate between 50-75 sq.ft. per gallon using an airless sprayer at the selected settings in section 6.1.

5.2 Bridging Agent: Apply A-B-C full strength with an airless sprayer in accordance with the settings listed in section 6.1, at an application rate

of 75-100 sq. ft. per gallon. When A-B-C is applied before the penetrating coat dries, additional capillary action and bonding cohesive strength will be achieved.

Special Note: According to the Environmental Protection Agency, A-B-C and all other approved equivalent encapsulant materials should be applied at a minimum film thickness of 20 dry mils.

6.0 APPLICATION EQUIPMENT AND SETTINGS:

6.1 Recommended settings for airless spray equipment:

Settings for Penetrant Coat:

Pressure: 1300 -1400 psi

Hose diameter: ¼ inch

Tip size: .017-.031 (orifice size)

Fan size: 12 inches

Settings for Bridging Coat:

Pressure: 2200-2300 psi

Hose diameter: ¼ inch

Tip size: .017-.019 (orifice size)

Fan size: 12 inches

7.0 JOB CONDITIONS:

7.10 A-B-C must be applied when the atmosphere *and* surface temperatures are above 50°F. Do not apply A-B-C to surfaces exposed to temperatures above 250°F.

7.11 Protect surfaces not to be encapsulated.

7.12 Provide adequate illumination and ventilation.

8.0 CLEAN UP:

8.10 Clean up tools and drippings before A-B-C dries. Dispose of all waste according to all existing local, state, and federal regulations.

9.0 IMPORTANT INFORMATION:

9.10 The effective encapsulation for any abatement project is dependent upon the competence of the applicator.

9.11 This specification does not fully describe all limitations, warnings and other precautions related to the product described herein.

9.12 Reference should be made to the Product Data sheets for complete technical information on all products manufactured by Fiberlock Technologies, Inc.

9.13 Material Safety Data Sheets (MSDS) should be referred to for health and safety information.