

Surface Preparation and Application Instructions for:



Lead-based Paint Encapsulant

Manufactured by:



Fiberlock Technologies, Inc.
150 Dascomb Road
Andover, MA 01810

(800) 342-3755
www.lead-safe.com



1. Product Name

CHILDGUARD®

Interior/Exterior Encapsulant Coating for lead-based paint (#5600)

2. Manufacturer

Fiberlock Technologies, Inc.

150 Dascomb Road

Andover, MA 01810 USA

Phone: 978-623-9987

Toll Free: 800-342-3755

www.leadsafe.com

3. Product Description

BASIC USE

- ChildGuard is a thermoplastic-elastomeric, water-based, copolymer blended specifically to form a durable yet flexible barrier between lead-based paint and the environment.
- ChildGuard is a high-solids coating formulated to offer unparalleled coverage, economics and paint-like aesthetics while preserving historic and architectural detail.
- ChildGuard contains Bitrex®, a very bitter-tasting, non-toxic anti-ingestant to discourage oral contact with lead paint.

COMPOSITION & MATERIALS

ChildGuard is a water-based thermoplastic elastomeric.

SIZE

Packaged in 1 gallons cans.

YIELD

ChildGuard will yield 120 ft² per

gallon at the required thickness of 7 dry mils (14 wet mils) on both interior and exterior surfaces.

COLORS

ChildGuard is white and can be tinted with up to 2 ounces of universal colorant per gallon. In addition, ChildGuard is paintable. Contact the manufacturer for more details.

LIMITATIONS

Do not use ChildGuard on friction surfaces or movable closures such as door jambs and window jambs. Do not dilute or thin ChildGuard. Some states require a surface assessment by a licensed lead inspector before application. Contact your state Department of Health, or Fiberlock for more information. The minimum application air and surface temperature is 38°F.

4. Technical Data

APPLICABLE STANDARDS

ASTM E-1795 Standard Specification for Non-Reinforced Liquid Coating Encapsulation Products for Leaded Paint in Buildings.

PHYSICAL/CHEMICAL PROPERTIES

Refer to Table 1 for physical and chemical properties of ChildGuard.

APPROVALS

- ChildGuard, independently tested at an NVLAP certified laboratory, was found to meet/surpass all requirements of the ASTM E-1795 Standard for a Category III (interior/exterior) encapsulant. Refer to Table 2 for ASTM E-1795 results.

- ChildGuard satisfies all HUD and EPA requirements which define encapsulation as a permanent abatement method.



Figure 1. ChildGuard

FIRE RATING

ChildGuard has a Class "A" fire rating when tested in accordance with ASTM E84, with a Flame Spread of "5" and Smoke Developed of "0".

ENVIRONMENTAL CONSIDERATIONS

ChildGuard has been designated non-toxic by a certified toxicologist.

5. Installation

PREPARATORY WORK

Before using ChildGuard, it is important to determine if the existing paint system is stable and well-adhered. This is done by performing an adhesion tape test on the surface to be coated. Perform this test at least once on each different type of surface to be coated. Clean a small area, rinse with clean water, and allow to dry. Apply a 6-10" strip of pressure-sensitive tape. Press the tape down with the rubber end of a pencil. After 90 seconds, remove (do not yank), the tape by pulling smoothly and slowly away from the surface.



Figure 2. ChildGuard in a residential apartment unit, Brookline, MA.

If more than one square inch of paint is removed along with the tape, the adhesion of the existing paint system is poor. When this occurs, additional preparation (i.e., wet sanding, scraping, cleaning, etc.), must be done to remove poorly adhered paint. If less than one square inch of paint is removed from the substrate, the surface is sound and can be encapsulated.

SURFACE PREPARATION

Remove or mask electrical plates, hardware, light fixture trim, and similar fittings prior to beginning encapsulation operations. Correct defects and clean surfaces affecting work in this section. Remove existing coatings that are flaking or in unacceptable condition to receive new coating. All scraping and sanding should be done wet in order to avoid creating lead dust. Check local, state, and federal regulations and guidelines regarding specific lead-based paint abate-

ment practices. Seal any marks or defects that might bleed through the encapsulant with an appropriate primer. Remove mildew from surfaces by scrubbing with a fungicide. Rinse with clean water and allow surface to dry.

Concrete and masonry: Remove dirt, chalk, loose mortar scale, salt alkalis, oil and grease with lead specific detergent. Rinse well and allow surface to dry. Apply masonry conditioner to prevent future chalking.

Plaster, Gypsum Wallboard: Fill all surface defects, wet sand smooth and spot prime with stain blocking primer. Glossy surfaces must be wet sanded or otherwise deglossed prior to application of the encapsulant.

Ferrous Metal: Remove rust and scale by wire brushing. Remove dust, dirt, oil and grease with a lead-specific detergent. When dry, immediately apply a rust-inhibiting direct-to-metal primer to prevent flash rusting.

Galvanized Metal: Remove dust, dirt, oil and grease with a lead-specific detergent. For areas where the galvanization has been damaged, apply a rust-inhibiting direct-to-metal primer to prevent flash rusting.

Aluminum: Remove dust, dirt, oil and grease with a lead-specific detergent. Etch the surface using an etching type metal prep, or apply a tie-coat once the aluminum surface is clean and dry.

MIXING

Mix ChildGuard thoroughly prior to application.

TABLE 1 PHYSICAL/CHEMICAL PROPERTIES OF CHILDGUARD

Property	ChildGuard
Percent Solids	62 ±2% by weight
Volatile	Principally water
Average Particle Size	0.2 microns
Weight at 78°F	11.5 ±0.3 lbs/gal
Viscosity at 78°F	105 - 130 KU
Flash Point	Noncombustible (Water-based)
Minimum Shelf Life at 78°F	24 months
Finish	Architectural Matte 60° spec. gloss: 4 ±1 85° spec. gloss: 3 ±1
Drying time at 78°F	To touch: 1-2 hours Additional coats/topcoat: 8-16 hours Full cure: 30 days

APPLICATION METHODS

Apply ChildGuard only after the existing paint system has been rendered clean, dry, sound and dull. ChildGuard can be applied using a brush or roller. Two applications by brush/roller are typically sufficient to achieve the required minimum dry film thickness of 7 mils on interior or exterior surfaces. Clean up tools and drippings with warm, soapy water before ChildGuard dries.

PRECAUTIONS

ChildGuard must be applied when the atmosphere and surface temperatures during application and for 12 hours thereafter are above 45°F. Protect from freezing. Keep container tightly sealed when not in use.

6. Availability and Cost

AVAILABILITY

ChildGuard is available through a network of authorized distributors and paint dealers. Contact Fiberlock Technologies, Inc. at 1-800-342-3755 for dealer information.

COST

Material cost per square foot can be estimated by dividing the price per gallon from an authorized distributor by 120 ft² per gallon.

7. Warranty

Fiberlock Technologies, Inc., warrants ChildGuard for a minimum of 20 years from the date that the product is applied to form an effective barrier from the hazards of the encapsulated lead-based paint. 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 ChildGuard's use and assume any and all risks and liabilities which may arise in connection with the application of ChildGuard. This warranty is extended only to the purchaser of ChildGuard 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 ChildGuard to a sound surface, which has been cleaned of foreign matter and dry at the time of application.
2. The failure to apply ChildGuard above the recommended minimum application temperature.
3. The failure to apply ChildGuard 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 the 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. Fiberlock Technologies shall not be held liable for any incidental damages, or for any consequential damages to property, or any losses of revenue which may have been caused by a defect or failure of the product. 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 ChildGuard become damaged, repair and re-apply ChildGuard 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 1-800-342-3755. Complete specifications and technical information can also be obtained online at www.lead-safe.com.

10. Filing System

Additional information is available upon request.