



116 East 16th Street  
New York, New York 10003-2112

Phone (212) 777-4445  
Fax (212) 505-8419  
E-mail: dllabs@aol.com

Accredited by National Voluntary Laboratory Accreditation Program - Lab Code 100252  
Accepted by Canadian General Standards Board - No. 76005 - ISO/IEC 25 Approved

June 11, 1999

Fiberlock Technologies  
630 Putnam Avenue  
P.O. Box 390432  
Cambridge, MA 02139-0802

Att: Mr. Cole W. D. Stanton

**DL-12362**

**OBJECTIVE**

To test an encapsulant product for conformance to the requirements of ASTM E 1795-97, Non-Reinforced Liquid Coating Encapsulation Products for Leaded Paint in Buildings, Type III, Either Exterior or Interior Use.

**PRODUCT TESTED**

LBC Lead Barrier Compound, Type III

**TEST PROCEDURES**

The test procedures used in this study were as outlined in ASTM E 1795-97.

**PANEL PREPARATION**

The encapsulant was applied to obtain a dry film thickness of 7 mils.

The test panels were dried at ambient conditions for 30 days before testing was initiated.



**TEST RESULTS**

The test results are shown in the Appendix.

**CONCLUSION**

The submitted sample of Fiberlock LBC Lead Barrier Compound, Type III conforms to all of the requirements of ASTM E 1795 , "Standard Specification for Non-Reinforced Liquid Coating Encapsulation Products For Leaded Paint in Buildings", Type III, Either Exterior or Interior Use.

**D/L LABORATORIES**

A handwritten signature in black ink that reads "Thomas J. Sliva".

cw  
cc: S. Spindel  
J. Willner

Thomas J. Sliva  
Assistant Technical  
Director



APPENDIX

TEST RESULTS

ENCAPSULANT PRODUCT PERFORMANCE

Product: LBC Lead Barrier Compound, Type III

Manufacturer: Fiberlock Technologies

<u>Par.</u>	<u>Requirement</u>	<u>Result</u>
5.1	Impact Resistance, Direct, (80 in. lbs. min.)	160+ in. lbs.
5.2	Adhesion, (5A min.)	5A
5.3	Abrasion Resistance, Thickness Loss, % (20% max.) CS-17, 1000 gms	7.9%
5.4	Water Vapor Transmission,, grains/ft <sup>2</sup> /hr.	0.28
5.5	Flexibility, (No cracking or defect 1/4" from apex)	Conforms
5.6.1	Water and Chemical Resistance	
	50% Ethanol	
	Blistering (None)	None
	Wrinkling, Cracking, etc. (None)	None
	Difference in Hardness, 24 hrs.	None
	5% Acetic Acid	
	Blistering (None)	None
	Wrinkling, Cracking, etc. (None)	None
	Difference in Hardness, 24 hrs.	None
	5% Sodium Hydroxide	
	Blistering (None)	None
	Wrinkling, Cracking, etc. (None)	None
	Difference in Hardness, 24 hrs.	None
	5% Hydrochloric Acid	
	Blistering (None)	None
	Wrinkling, Cracking, etc. (None)	None
	Difference in Hardness, 24 hrs.	None



APPENDIX

<u>Par.</u>	<u>Requirement</u>	<u>Result</u>
5.6.1	Water and Chemical Resistance, 24 Hrs.	
	5% Citric Acid	
	Blistering (None)	None
	Wrinkling, Cracking, etc. (None)	None
	Difference in Hardness, 24 hrs.	None
	Corn Oil	
	Blistering (None)	None
	Wrinkling, Cracking, etc. (None)	None
	Difference in Hardness, 24 hrs.	None
	2% Phosphoric Acid	
	Blistering (None)	None
	Wrinkling, Cracking, etc. (None)	None
	Difference in Hardness, 24 hrs.	None
	5% Trisodium Phosphate	
	Blistering (None)	None
Wrinkling, Cracking, etc. (None)	None	
Difference in Hardness, 24 hrs.	None	
Distilled Water		
Blistering (None)	None	
Wrinkling, Cracking, etc. (None)	None	
Difference in Hardness, 24 hrs.	None	
5.6.2	Water Immersion, 24 Hrs.	
	Adhesion after 2 hrs. recovery (5A min.)	5A
	Difference in Hardness, 24 hrs.	Conforms
5.7	Surface Burning Characteristics	
	Flame Spread Index (25 max.)	5
	Smoke Development Rating (50 max.)	0
5.8	Volatile Organic Content	
	gm/L	85
	lbs/gal	0.7



APPENDIX

<u>Par.</u>	<u>Requirement</u>	<u>Result</u>
5.9	Weathering – 1000 Hrs. Chalking, ASTM, (8 min.) Adhesion, ASTM, (5A min.) Flexibility, (No cracking or defects ¼" from apex) Tensile Strength, psi Elongation, 35% relative change, max.	<u>8</u> <u>5A</u> <u>Conforms</u> <u>695 psi</u> <u>-34.4%</u>
5.10	Aging – 12 cycles Adhesion, ASTM Scale, (5A min.) Flexibility, (No cracking or defect ¼" from apex) Tensile Strength, psi Elongation, 35% relative change, max.	<u>5A</u> <u>Conforms</u> <u>635 psi</u> <u>-22.7%</u>
	Aging – 2 weeks at 40°C Adhesion, ASTM Scale, (5A min.) Flexibility, (No cracking or defect ¼" from apex) Tensile Strength, psi Elongation, 35% relative change, max.	<u>5A</u> <u>Conforms</u> <u>633 psi</u> <u>-5.5%</u>
5.11	Scrub Resistance, cycles (1200 min.)	<u>1350 cycles</u>
5.12	Mildew Resistance, Rating (8 min.)	<u>10</u>
5.13	Paintability	
5.13.1	Encapsulant / Latex Paint, ASTM Scale (5A min.)	<u>5A</u>
5.13.2	Encapsulant / Encapsulant, ASTM Scale (5A min.)	<u>5A</u>
5.14	Tensile Properties Tensile Strength, psi Elongation, % Elongation at 100 psi	<u>565 psi</u> <u>48.9%</u> <u>1.2%</u>