



116 East 16th Street
New York, New York 10003

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

Accredited by National Institute of Standards and technology - No. 0252
Accepted by Canadian General Standards Board - No. 76005
ISO/IEC 25 Approved

March 5, 1999

Superior Products International
P.O. Box 1930
Independence, MO 64055

Att: **Mr. J.E. Pritchett**
President

DL-12111

OBJECTIVE

To test a coating for compliance to the requirements as outlined in ASTM E-1795, "Standard Specification for Non-Reinforced Liquid Coating Encapsulation Products for Leaded Paint in Buildings", Type III, Either Exterior or Interior Use.

PRODUCT TESTED

RustGrip

TEST PROCEDURES

The coating was applied in two coats, 6 mils wet per coat with four hours dry between coats and allowed to cure twenty-one days at ambient conditions before testing in accordance with procedures outlined in ASTM E-1795.

TEST RESULTS

The test results are shown in the Appendix.



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Retest Passed "EXTERIOR"

July 21, 1999

Superior Products
P.O. Box 1930
Independence, MO 64055

Att: Mr. J.E. Pritchett
President

DL-12370

Via FAX (816) 241-1772

OBJECTIVE

To test a coating for compliance to the flexibility requirement as outlined in ASTM E 1795, "Standard Specification for Non-Reinforced Liquid Coating Encapsulation Products for Leaded Paint in Building", Par. 5.10.1, Aging -Exterior Products.

PRODUCT TESTED

The coating was submitted by Superior Products and identified as RustGrip.

TEST PROCEDURE

The coating was applied at 3 mils wet film thickness and allowed to cure twenty-one days at ambient conditions before testing in accordance with procedures outlined in ASTM E-1795, Par. 10.10.1.

TEST RESULTS

The coating did not exhibit any cracking or other visual defects when measured at 0.25 inches from the apex of the conical mandrel.

D/L Laboratories


Mario Lazaro, Jr.
Group Leader

cw

cc: T. Sliva
S. Spindel



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

Re LES 11 "IN 2011"
Passed

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May 5, 1999

Superior Products
P.O. Box 1930
Independence, MO 64055

Att: Mr. J.E. Pritchett
President

DL-12283

Via FAX (816) 241-1772

OBJECTIVE

To test a coating for compliance to the flexibility requirement as outlined in ASTM E 1795, "Standard Specification for Non-Reinforced Liquid Coating Encapsulation Products for Leaded Paint in Building", Type I : Interior Use Only, Par. 5.10.2, Aging - Interior Products.

PRODUCT TESTED

The coating was submitted by Superior Products and identified as RustGrip.

TEST PROCEDURE

The coating was applied at 3 mils wet film thickness and allowed to cure twenty-one days at ambient conditions before testing in accordance with procedures outlined in ASTM E-1795, Par. 10.10.2.

TEST RESULTS

The coating did not exhibit any cracking or other visual defects when measured at 0.25 inches from the end of the conical mandrel.

D/L Laboratories

Mario Lazaro, Jr.
Group Leader

CW

cc: T. Sliva
S. Spindel



CONCLUSION

The sample of RustGrip conforms to all of the requirements in ASTM E-1795, Standard Specification for Non-Reinforced Liquid Coatings Encapsulation Products for Leaded Paint in Buildings, Type III, Either Exterior or Interior Use, with the exception* of flexibility after weathering and aging (paragraphs 5.9 and 5.10.2).

D/L Laboratories



Mario Lazard, Jr.
Group Leader

cw

cc: S. Spindel

** See notes on next page
- Passed -*

APPENDIXTEST RESULTSENCAPSULANT PRODUCT PERFORMANCEProduct: RUST GRIP Batch Number - None

<u>Par.</u>	<u>Property</u>	<u>Requirement</u>	<u>Result</u>
5.1	Impact Resistance, Direct	80 in. lbs min.	90 in. lbs.
5.2	Adhesion	5A min.	5A
5.3	Dry Abrasion Resistance, Thickness Loss CS-17, 1000 gms	20% max.	16%
5.4	Water Vapor Transmission	grains/ft ² /hr./in. Hg (perms)	0.22 perms
5.5	Flexibility	No crack ¼" from apex	None
5.6	Water and Chemical Resistance		
5.6.1	50% Ethanol		
	Blistering	None	None
	Wrinkling, Cracking, etc.	None	None
	Difference in Hardness, 24 hrs.	None	None
	5% Acetic Acid		
	Blistering	None	None
	Wrinkling, Cracking, etc.	None	None
	Difference in Hardness, 24 hrs.	None	None
	5% Sodium Hydroxide		
	Blistering	None	None
	Wrinkling, Cracking, etc.	None	None
	Difference in Hardness, 24 hrs.	None	None
	5% Hydrochloric Acid		
	Blistering	None	None
	Wrinkling, Cracking, etc.	None	None
	Difference in Hardness, 24 hrs.	None	None



APPENDIX (cont)

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



APPENDIX (cont)

<u>Par.</u>	<u>Property</u>	<u>Requirement</u>	<u>Result</u>
5.8	Volatile Organic Content gm/L lbs/gal		<u>425 g/L</u> <u>3.5 lbs/gal</u>
5.9	Weathering 1000 hours - 4 hours UVB 313 at 60°C + 4 Hours condensation at 50°C		
	Chalking	8 min.	<u>10</u>
	Adhesion	5A min.	<u>5A</u>
	Flexibility	No crack 1/4" from apex	* <u>cracking 3/4"</u> **
	Elongation	35% relative change	<u>9%</u>
5.10	Aging		
5.10.1	Exterior Products 12 cycles - 1 hour at 49°C + 15 minutes at 25°C at 1 hour at -15°F + 15 minutes at 25°C		
	Adhesion	5A min.	<u>5A</u>
	Flexibility	No crack 1/4" from apex	<u>None</u>
	Tensile Strength	psi	<u>6760 psi</u>
	Elongation	35% relative change, max.	<u>4%</u>
5.10.2	Interior Products 2 weeks at 40°C		
	Adhesion	5A min.	<u>5A</u>
	Flexibility	No crack 1/4" from apex	* <u>cracking 3/4"</u> **
	Tensile Strength	psi	<u>6780 psi</u>
	Elongation	35% relative change, max.	<u>-5%</u>
5.11	Scrub Resistance, cycles	1200 min.	<u>2500+</u>
5.12	Mildew Resistance, Rating	8 min.	<u>10</u>
5.13	Paintability / Repairability		
5.13.1	Encapsulant / Latex Paint	5A min.	<u>5A</u>
5.13.2	Encapsulant / Encapsulant	5A min.	<u>5A</u>
5.14	Tensile Properties		
	Tensile Strength	psi	<u>6170 psi</u>
	Elongation	%	<u>10%</u>
	Elongation at 100 psi	%	<u>2%</u>

* Fails to meet specifications requirements

****SEE PAGE 2 OF 5
 RETESTED NO CRACKING**



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November 6, 1998

Superior Products International, Inc.
P.O. Box 1930
Independence, MO 64055

Att: Julie

Re: Accreditation

Dear Julie:

The D/L Laboratories is accredited by the U. S. Department of Commerce's NVLAP program in the fields of paints and sealants (NVLAP Code No. 100252-0). A copy of our Certificate of Accreditation is enclosed.

Sincerely,

A handwritten signature in cursive script that reads 'Saul Spindel'.

Saul Spindel
President

cw

cc: T. Sliva

United States Department of Commerce
National Institute of Standards and Technology

NVLAP[®]

ISO/IEC GUIDE 25:1990
ISO 9002:1987

Certificate of Accreditation



D/L LABORATORIES
NEW YORK, NY

is recognized under the National Voluntary Laboratory Accreditation Program for satisfactory compliance with criteria established in Title 15, Part 285 Code of Federal Regulations. These criteria encompass the requirements of ISO/IEC Guide 25 and the relevant requirements of ISO 9002 (ANSI/ASQC Q92-1987) as suppliers of calibration or test results. Accreditation is awarded for specific services, listed on the Scope of Accreditation for:

COMMERCIAL PRODUCTS TESTING

December 31, 1998

Effective through

A handwritten signature in black ink, appearing to read "James L. Galt", written over a horizontal line.

For the National Institute of Standards and Technology

NVLAP Lab Code: 100252-0