

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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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

Group Leader

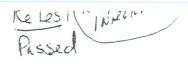
CW

cc: T. Sliva

S. Spindel



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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

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 Lazaro, Group Leader

CW

cc: S. Spindel

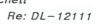
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APPENDIX

ENCAPSULANT PRODUCT PERFORMANCE

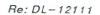
Product:	RUST GRIP Batch Number - None			
Par.	Property	Requirement	Result	
5.1	Impact Resistance, Direct	80 in. Ibs min.	90 in. lbs.	
5.2	Adhesion	5A min.	5A	
5.3	Dry Abrasion Resistance, Thickness Loss CS-17, 1000 gms	20% max.	16%	
5.4	Water Vapor Transmission	grains/ft²/hr./in. Hg (perms)	0.22 perms	
5.5	Flexibility	No crack 1/4" from apex	None	
5.6 5.6.1	Water and Chemical Resistance 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)

Par.	Property	Requirement	Result
5.6.1	Water and Chemical Resistance (cont)	The second second second second	
	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.		
0.0.2	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)

Par.	Property	Requirement	Result	
5.8	Volatile Organic Content			
	gm/L		425 g/L	
	lbs/gal		3.5 lbs/gal	
5.9	Weathering			
	1000 hours - 4 hours UVB 313 at 60	°C + 4 Hours condensation at 50°C		
	Chalking	8 min.	10	
	Adhesion	5A min.	5A	
	Flexibility	No crack ¼" from apex	cracking 3/4"	* 1
	Elongation	35% relative change	9%	
5.10	Aging			
5.10.1	Exterior Products			
	12 cycles - 1 hour at 49°C + 15 n	ninutes at 25°C at 1 hour at -15°F + 15 minutes at 25°C		
	Adhesion	5A min.	5.A	
	Flexibility	No crack 1/4" from apex	None	
	Tensile Strength	psi	6760 psi	
	Elongation	35% relative change, max.	4%	
	-	To to to take to distange, max.	470	
5.10.2	Interior Products			
	2 weeks at 40°C			
	Adhesion	5A min.	5 A	
	Flexibility	No crack ¼" from apex *	cracking 3/4"	××
	Tensile Strength	psi	6780 psi	
	Elongation	35% relative change, max.	- 5%	
5.11	Saruh Basistanas austr			
5. 11	Scrub Resistance, cycles	1200 m in.	2500+	
5.12	Mildew Resistance, Rating	8 min.	10	
		•	10	
5.13	Paintability / Repairability			
5.13.1	Encapsulant / Latex Paint	5A min.	5A	
5.13.2	Encapsulant / Encapsulant	5A min.	5A	
5.14	Tensile Properties			
	Tensile Strength	psi	6170 psi	
	Elongation	%	10%	
	Elongation at 100 psi	%	2%	

^{*} Fails to meet specifications requirements



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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,

CW

cc: T. Sliva

Saul Spindel President

United States Department of Commerce National Institute of Standards and Technology



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/ASOC 092-1987) 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

ISO 9002:1987

For the National Institute of Standards and Technology

NVLAP Lab Code:

100252-0