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January 15, 1998

International Protective Coatings Corp.
725 Carol Avenue
Oakhurst, NJ 07755

Att: **Robert Montesano, CSI**
Vice President, Sales

DL-11698

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 Lead Paint in Buildings", Type I for Interior Use.

PRODUCT TESTED

Barrier Coat II Lead Encapsulant

TEST PROCEDURE

The coating was applied at a dry film thickness of 7 mils and cured 7 days at ambient conditions before testing. The coating was tested in accordance with procedures outlined in ASTM E 1795:

TEST RESULTS

The test results are shown in the Appendix.



Att: Robert Montesano, CSI
Re: DL-11698

CONCLUSION

The sample of Barrier Coat II Lead Encapsulant conforms to the requirements of ASTM E 1795, Standard Specification for Non-Reinforced Liquid Coatings Encapsulation Products For Leaded Paint In Buildings, Type I, Interior Use when tested at 7 mils dry film thickness.

D/L Laboratories

A handwritten signature in cursive script that reads "Mario Lazaro, Jr.".

Mario Lazaro, Jr.
Group Leader

cw

cc: M. Navarro
T. Sliva
S. Spindel



APPENDIX

TEST RESULTS

ENCAPSULANT PRODUCT PERFORMANCE

Product: BARRIER COAT II LEAD ENCAPSULANT

<u>Par.</u>	<u>Property</u>	<u>Requirement</u>	<u>Result</u>
4.1	Impact Resistance, Direct	80 in. lbs min.	160 in. lbs.
4.2	Adhesion	5A min.	5A
4.3	Abrasion Resistance, Thickness Loss CS-17, 1000 gms	20% max.	9.5%
4.4	Water Vapor Transmission	grains/ft ² /hr./in. Hg (perms)	1.0 perms
4.5	Flexibility	No crack 1/4" from apex	No cracks
4.6	Water and Chemical Resistance		
4.6.1	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>
4.6.1	Water and Chemical Resistance (cont)		
	5% Citric Acid		
	Blistering	None	None
	Wrinkling, Cracking, etc.	None	None
	Difference in Hardness, 24 hrs.	None	None
	Com 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
	Lubricating Oil		
	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
4.6.2	Water Immersion, 24 Hrs.		
	Adhesion after 2 hrs. recovery	5A min.	5A
	Difference in Hardness, 24 hrs.	None	None



APPENDIX (cont)

<u>Par.</u>	<u>Property</u>	<u>Requirement</u>	<u>Result</u>
4.7	Surface Burning Characteristics		
	Flame Spread Index	25 max.	10
	Smoke Development Rating	50 max.	10
4.8	Volatile Organic Content		
	gm/L		95 g/L
	lbs/gal		0.8 lbs/gal
4.10	Aging – 2 weeks at 40°C		
	Adhesion	5A min.	5A
	Flexibility	No crack 1/4" from apex	No cracks
	Tensile Strength	psi	565 psi
	Elongation	35% relative change, max.	6 %
4.11	Scrub Resistance, cycles	1200 min.	1270
4.12	Mildew Resistance, Rating	8 min.	10
4.13	Paintability / Recoatability		
4.13.1	Encapsulant / Latex Paint	5A min.	5A
4.13.2	Encapsulant / Encapsulant	5A min.	5A
4.14	Tensile Properties		
	Tensile Strength	psi	625 psi
	Elongation	%	170 %
	Elongation at 100 psi	%	0.06 %