



# United States Testing Company, Inc.

## Chemical Services Division

1415 PARK AVENUE • HOBOKEN, NEW JERSEY 07030 • 201-792-2400

*(Term M, C)*

### REPORT OF TEST

January 17, 1990

*R/S*

**CLIENT:** International Protective Coatings  
725 Carol Avenue  
Ocean Township, NJ 07712  
Attention: Ms. Jim Stahl

**NUMBER**  
033928

**SUBJECT:** One sample of Serpimastic submitted and identified by the client.

AUTHORIZATION:

Client's letter dated December 1, 1989.

PURPOSE:

To determine the permeability of the coating per ASTM D-1653 and to perform Gardner Impact Test per ASTM D-2794 on the coated side of the steel panel.

PROCEDURE:

Films were cast on release paper using a steel drawdown blade. A steel panel was coated the same way. Permeability was determined using the 25cm<sup>2</sup> cups of ASTM D-1653 under the conditions of ASTM E-96 Method B. Films were monitored in 2 cups. Weights of cups were monitored every 24 hours for 96 hours at 73°F and RH of 50%.

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**SIGNED FOR THE COMPANY**

*for* *Joseph Bernasconi*  
William S. Gilman

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ph

**Laboratories in:** New York • Chicago • Los Angeles • Tulsa • Memphis • Philadelphia • Richland

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CLIENT: International Protective Coatings

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RESULTS:

Permeability

<u>Cup No.</u>	<u>Weight Loss</u>
1	0.585 g/96 hours
2	0.722
3	0.713
Average	0.673

<u>Characteristic</u>	<u>Metric Units</u>	<u>U.S. Units</u>
Water Vapor Transmission	67.3 g/24 h·m <sup>2</sup>	4.01 grains/h·ft <sup>2</sup>
Permeance, perms	6.41 g/24 h·m <sup>2</sup> mm	9.78 grains/h·ft <sup>2</sup> ·inch
Permeability	1.22 g/24 h·m <sup>2</sup> ·mm·cm	733.5 grains/h·ft <sup>2</sup> ·inch·mil

Impact Resistance

Greater than 160 inch pounds the maximum of the tester.

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