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Evaluation of Laddawn Film

From: Cortec Corporation Laboratories
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Project #: 11-137-1125(bis)

Test conducted by:

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Background: Customer requested that the submitted Laddawn film be tested to determine if it provided sufficient corrosion protection.

Sample Received: Laddawn Clear Bag, good condition, received 7-14-11

Method:

- 1) VIA Test CC-027
- 2) Razor Blade Test CC-004
- 3) FTIR Test CC-006
- 4) Nitrite Test

Materials:

- 1) Razor Blade Test Kit
- 2) VIA Test Kit
- 3) Perkin Elmer Paragon 1000 Spectrophotometer
- 4) VpCI-126 Film Lot # 30688
- 5) EM Quant Nitrite/Nitrate Test Strips, Product # 10020-1

Procedure: The tests were performed according to standard procedures.

Results:

VIA Test Results

Sample ID	Plug 1	Plug 2	Plug 3	Control
Laddawn	Grade 0	Grade 0	Grade 0	Grade 0
VpCI-126	Grade 3	Grade 3	Grade 3	Grade 0

Carbon Steel Razor Blade Test Results

Sample ID	Panel 1	Panel 2	Panel 3	Control
Laddawn	Fail	Fail	Fail	Fail
VpCI-126	Pass	Pass	Pass	Fail

Interpretations:

1. Based on the corrosion test results, the Laddawn film doesn't provide any corrosion protection
2. FT-IR results show that the film contains sodium benzoate and does not contain any VCI.
3. The VpCI-126 film provides excellent vapor-phase and contact-phase corrosion protection.

VIA Test Grades (Grade 2 or 3 are passing)

		
		Grade 0
Grade 0:	Blind test No corrosion inhibiting effect	
Grade 1:	Blind test Minute corrosion inhibiting effect	Grade 1
Grade 2:	Blind test Medium corrosion inhibiting effect	
Grade 3:	Blind test Good corrosion inhibiting effect	Grade 2
		
		Grade 3

