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Evaluation of BRANOfol and Foil Film

Purpose: Evaluate anticorrosion properties of the submitted BRANOfol Blue film and the foil film.

Materials:

- 1) BRANOfol Blue Film, 4 mils
- 2) Foil Film, 4 mils
- 3) Methanol, lab grade
- 4) Razor Blade test kit
- 5) VIA test kit
- 6) Perkin Elmer FT-IR 1000 Spectrometer

Method:

- 1) Razor Blade test, CC-004
- 2) VIA test
- 3) FT-IR Spectroscopy

Procedure: The above tests were performed according to standard procedures for each.

Results:

Razor Blade Test Performed on Carbon Steel Panels

Sample	Panel 1	Panel 2	Panel 3
BRANOfol	Fail	Fail	Fail
Foil	Fail	Fail	Fail
Control	Fail	-	-



Razor Blade Test Performed on Copper Panels

Sample	Panel 1	Panel 2	Panel 3
BRANOfol	Fail	Fail	Fail
Foil	Fail	Fail	Pass
Control	Fail	-	-

VIA Test

Sample	Plug #1	Plug #2	Plug #3
BRANOfol	Grade 0	Grade 0	Grade 0
Control	Grade 0	-	-

Note: VIA Grading system is attached below

FT-IR Spectroscopy

FT-IR results are attached at the end of the report.

Conclusion:

1. Based on the VIA test results, the BRANOfol film does not provide vapor-phase corrosion protection. The razor blade results determined it does not provide contact-phase corrosion protection for carbon steel and copper. The FT-IR results confirm that this product contains sodium benzoate.
2. The Foil film also provided insufficient contact-phase corrosion protection. It failed the razor blade, for both copper and carbon steel panels.

Project #: 09-243-1125(bis)

Estimated Cost of Project: 2 hours

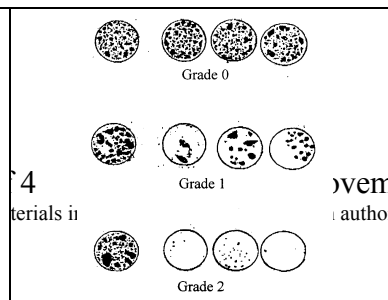
From: Liz Austin

Date: November 3, 2009

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



November 6, 2009
authorization of

VIA Test Grades (Grade 2 or 3 are passing)

