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Evaluation of Blue Film

From: Cortec Corporation Laboratories
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Project #: 12-254-1125.revised.bis

Results reported by:

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Background: Jess Carpenter submitted a blue bag and requested that the film be tested to determine if it is effective at inhibiting corrosion.

Sample Received:

- 1) Blue film-2 mil, submitted 12-03-12, good condition, labeled 12-254-1125, manufactured by Daubert.

Method:

- 1) VIA Test (CC-027)
 - 2) Razor Blade Test (CC-004)*
 - 3) FTIR Test (CC-006)
- *Cortec Laboratory is not accredited for the test marked

Materials:

1. VIA Test Kit
2. Laboratory Grade Methanol
3. Carbon Steel Panels
4. Control Film, Plain Polyethylene Film
5. Deionized Water
6. Paragon 1000 FTIR

Procedure:

- 1) The tests were performed according to their standard procedures.

Results:

Razor Blade Test – Carbon Steel

Sample	Panel 1	Panel 2	Panel 3
Blue Film	Fail	Fail	Fail
Control	Fail	-	-

VIA Test

Sample	Plug # 1	Plug # 2	Plug # 3	Pass / Fail
Blue Film	Grade 0	Grade 0	Grade 2	Fail
Control	Grade 0	N/A	N/A	Fail

Note: Grades 0 and 1 are considered failing. See below for grading scale example.

Results relate only to the items tested

Interpretations:

- 1) Based on the razor blade test results, the blue film failed to provide contact-phase corrosion inhibition.
- 2) The VIA test result determined that the film failed and did film does not provide vapor-phase corrosion inhibition.
- 3) FTIR results did not show any presence of corrosion inhibitor in the film.

VIA Test Grades (Grade 2 or 3 are passing)

- 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



