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Evaluating ExCorr Film

Background: A sample of ExCorr Film was submitted to Cortec. Initial FT-IR spectrum of submitted

film does not give similar readings to previous ExCorr films tested at Cortec

Corporation.

Purpose: Evaluate the corrosion inhibition performance of submitted ExCorr

Method: Razor Blade Test

VIA Test Nitrite test

Materials: Razor Blade Test Kit

VIA Test Kit

EM Quant Nitrite/Nitrate Test strips (Lot # OC405590, Exp 9/07)

Submitted ExCorr film (3 mil)

Cortec VpCI-126 film (3 mil), SO# 22113

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

Results:

Razor Blade Test

Material	Panel #1	Panel #2	Panel #3
Submitted ExCorr Film (3 mil)	Fail	Fail	Fail
Cortec VpCI-126 film (3 mil)	Pass	Pass	Pass
Control	Fail	Fail	Fail

VIA Test

Material	Plug #1	Plug #2	Plug #3
Submitted ExCorr Film (3 mil)	Grade 3	Grade 3	Grade 3
Cortec VpCI-126 film (3 mil)	Grade 3	Grade 3	Grade 3
Control	Fail	Fail	Fail

Nitrite Test: Submitted ExCorr Film (3 mil) is nitrite based.

Conclusion: Submitted ExCorr Film (3 mil), fails to provide sufficient contact phase corrosion

inhibition.

Project #: 06-082-1125





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 2: Blind test

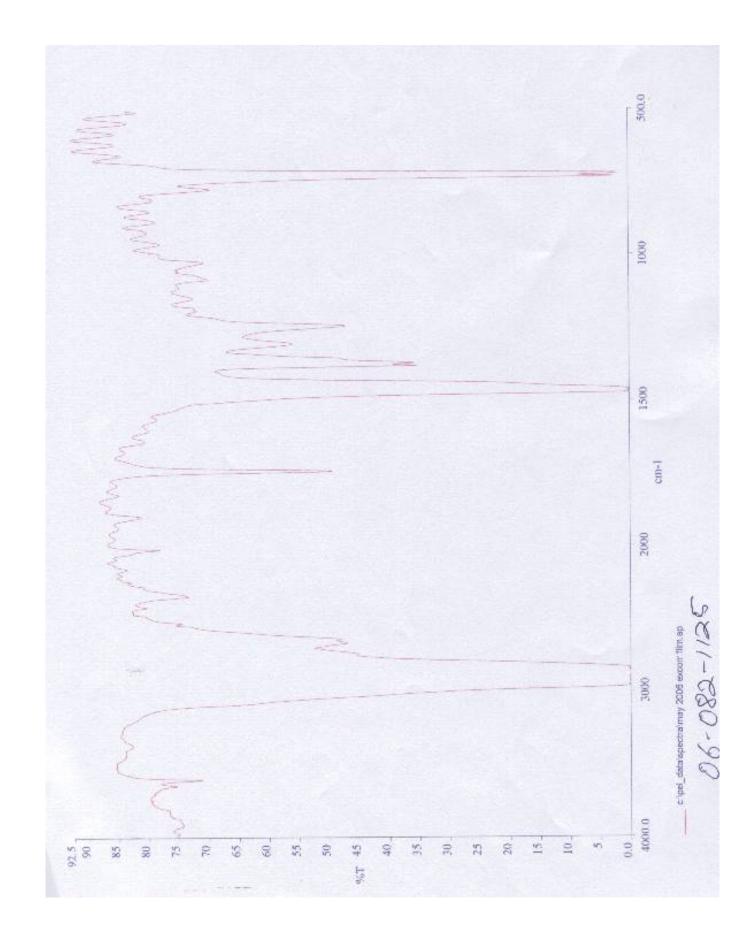
Medium corrosion inhibiting effect

Grade 3: Blind test

Good corrosion inhibiting effect







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