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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:	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