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Evaluating three Zerust films

Background: Boris Miksic submitted three Zerust films. Films were recently produced.

Purpose: Evaluate the corrosion inhibition performance of submitted films.

Method: VIA Test
Nitrite Test

Materials: VIA Test Kit
EM Quant Nitrite/Nitrate Test strips (Lot OC332590, Exp 7/06)

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

Results:

VIA Test

Material	Plug #1	Plug #2	Plug #3
Submitted Zerust Film (Cloudy Yellow colored), 3 mil	Grade 2 (3 pin dots of rust)	Grade 2 (2 pin dots of rust)	Grade 3
Submitted Zerust Film (Shiny Yellow colored), 3 mil	Grade 2 (3 pin dots of rust)	Grade 2 (3 pin dots of rust)	Grade 3
Submitted clear Zerust film, 3 mil	Grade 0	Grade 0	Grade 0
Cortec VpCI-126 film, 3 mil*	Grade 3	Grade 3	Grade 3
Control, 3 mil	Fail	Fail	Fail

*Typical results for Cortec VpCI-126 film

Nitrite Test: The cloudy yellow colored Zerust film and shiny yellow colored Zerust film are heavily nitrite based.

Conclusion: Submitted Zerust films do not provide same level of protection as Cortec VpCI-126 film, as witnessed in this particular VIA test. It should be mentioned that clear Zerust film doesn't provide any kind of protection.

Project #: 05-173-1125



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



