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Comparing VpCI-322 and VpCI-329 to Rust Preventive Oils Used by Customer

Purpose: To compare the corrosion protection of VpCI-322 and VpCI-329 to three oil based products used by Customer.

Method: ASTM D-1748 Humidity Cabinet (120°F, ~95% relative humidity)

Materials: Mobilarma 247, provided by Customer
 Mobilarma 524, provided by Customer
 Anderol 815, provided by Customer
 VpCI-322 Oil Concentrate
 VpCI-329 Oil Concentrate
 1010 cold rolled carbon steel panels

Procedure: The following procedure was used:

- 1) Six carbon steel panels were cleaned with methanol prior to testing.
- 2) After cleaning, the panels were dipped as follows:
 - a. Control (no dip)
 - b. Mobilarma 247
 - c. Mobilarma 524
 - d. Anderol 815
 - e. VpCI-322
 - f. VpCI-329
- 3) After dipping, all panels were hung to dry overnight.
- 4) Next, all panels were hung in ASTM D-1748 humidity cabinet.
- 5) All panels were visually inspected periodically.
- 6) After 600 hours, all panels were removed from ASTM D-1748 humidity cabinet.
- 7) Panels were visually inspected and photographed.

Results: The following results were found:

Rust Preventive	Time to Failure (Hours)
None (Control)	<24
Mobilarma 247	240
Mobilarma 524	192
Anderol 815	192
VpCI-322	DNF*
VpCI-329	DNF*

DNF – Did not fail in 600 hours of humidity testing.

Conclusion: VpCI-322 and VpCI-329 provided 2-3 times greater corrosion protection than the oils currently used by Customer. Both Cortec products could be considered effective alternatives for customer’s process.



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