




• 4119 White Bear Parkway, St. Paul, MN 55110 USA
• Phone: (651) 429-1100, Fax: (651) 429-1122
• Toll Free: (800) 4-CORTEC, E-mail: info@cortecvci.com
cortecvci.com • corteclaboratories.com


Comparing Corrosion Protection of VpCI-325 to Metal Medic 7315

From: Cortec Corporation Laboratories
4119 White Bear Parkway
St. Paul, MN 55110

cc: Boris Miksic
Anna Vignetti
Cliff Cracauer
Bob Boyle

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Test conducted by: 
Eric Uutala
Technical Service Engineer

Approved by: 
Margarita Kharshan
Laboratory Director

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Background: Customer sent a sample of Metal Medic 7315 to Cortec for evaluation. The corrosion protection of this product will be tested and compared to VpCI-325.

Sample Received: Metal Medic 7315

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

Materials: Metal Medic 7315
VpCI-325
1010 carbon steel panels

Procedure: The following procedure was used:

- 1) Three carbon steel panels were cleaned with methanol prior to testing.
- 2) After cleaning, the panels were treated as follows:
 - a. No further treatment (control)
 - b. Dipped in Metal Medic 7315
 - c. Dipped in VpCI-325.
- 3) After dipping, panels were allowed to air dry overnight.
- 4) All three panels were then hung in ASTM D-1748 humidity cabinet.
- 5) Panels were visually inspected periodically.
- 6) After 432 hours, all panels were removed from ASTM D-1748 humidity cabinet.
- 7) Panels were visually inspected and photographed.

Results: The following results were found:

Treatment	Time to Failure (Hours)
None (control)	<24
Metal Medic 7315	120
VpCI-325	DNF*

DNF – Did not fail during 432 hours of humidity testing.

Photos:

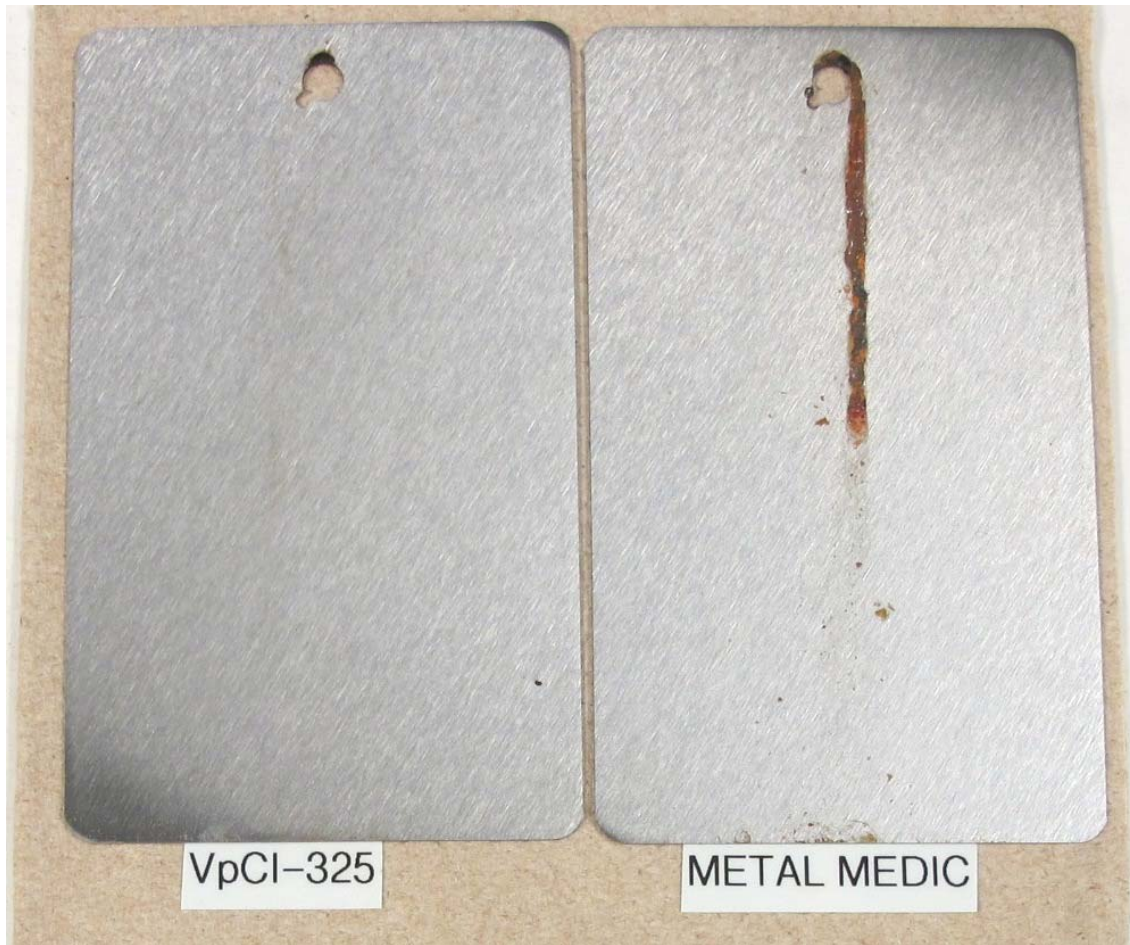


Figure 1: Carbon steel panels, after 432 hours of ASTM D-1748 testing.

Interpretations: After 432 hours of ASTM D-1748 testing, VpCI-325 provided superior corrosion protection, when compared to Metal Medic 7315.