

Evaluation of MobilArma 524

Background: Customer currently utilizes MobilArma 524 for indoor corrosion protection. Customer is interested in replacing MobilArma 524 with a superior Cortec product.

Purpose: Compare MobilArma 524 to several Cortec products.

Materials: VpCI-377
VpCI-325
VpCI-327
MobilArma 524

Method: ASTM-D-1748

Procedure: The following Procedure was followed:

1) 1010 Carbon steel Q-panels were coated with the following products

| Panel | Product |
|-------|--|
| A | MobilArma 524 |
| B | Ecoair VpCI-377 (10% by weight in water) |
| C | VpCI-325 |
| D | VpCI-327 |

2) The panels were allowed to dry for more than 24 hours and placed inside the ASTM-D-1748 Humidity Cabinet.

3) Periodically the panels were inspected, after 672 hours the panels were inspected, removed, a picture was taken, and a report was written.

Results: The following results were found:

| Panel | Time to Failure (hours) |
|-------|-------------------------|
| A | 432 |
| B | 670* |
| C | Did Not Fail |
| D | Did Not Fail |

*failure was due to discoloration, not corrosion

Conclusion: VpCI-327 and VpCI-325 provided better corrosion protection than MobilArma 524. VpCI-377 provided equal protection as the MobilArma 524, and it is water based and leaves a dry tack free film.

Project #: 03-064-1825

Estimated Cost of Project: 6.5 Hours

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