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Comparing Tectyl 506 to Similar Cortec Rust Preventives for Customer

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Test conducted by:

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Background:	Customer currently uses Tectyl 506 as part of a protection system on their equipment being shipped overseas. They would like this product compared to similar Cortec products.	
Sample Received:	Tectyl 506 – Quart sample Six machined metal plates	
Method:	ASTM D-1735 Water Fog Cabinet ASTM B-117 Salt Fog	
Materials:	Tectyl 506 Six machined metal plates VpCI-368D VpCI-389D Laboratory grade methanol	
Procedure:	 The following procedure was used: Prior to testing, all plates were cleaned with methanol. After cleaning, plates were prepared as follows: a. Two plates were brushed with Tectyl 506 b. Two plates were brushed with VpCI-368D c. Two plates were brushed with VpCI-389D After coating, all plates were allowed to air dry overnight. Next, one set of plates was put in ASTM D-1735 water fog cabinet. The second set of plates was put in ASTM B-117 salt fog cabinet. All plates were visually inspected periodically. After 600 hours, all plates were removed from ASTM B-117 salt fog cabinet. a. All plates were visually inspected and photographed. After 1500 hours, all plates were removed from ASTM D-1735 water fog cabinet. a. All plates were visually inspected and photographed. 	
Results:	The following results were found:	

ASIM B-117 Salt Fog			
Coating Used	Time to Corrosion (Hours)		
Tectyl 506	120		
VpCI-368D	DNF*		
VpCI-389D	528		

ASTM D 117 Salt E

DNF – Did not fail during 600 hours of ASTM B-117 testing.

Coating Used	Time to Corrosion (Hours)
Tectyl 506	DNF*
VpCI-368D	DNF*
VpCI-389D	DNF*

ASTM D-1735 Water Fog

DNF – Did not fail during 1500 hours of ASTM D-1735 testing.

Photos:



Figure 1: Steel plates after 600 hours in ASTM B-117 salt fog testing. From left to right: Tectyl 506, VpCI-368D, VpCI-389D.



Figure 2: Steel plates after 1500 hours in ASTM D-1735 water fog testing. From left to right: Tectyl 506, VpCI-368D, VpCI-389D.

Interpretations: Although all three products provided equal corrosion protection in high humidity testing, the Tectyl coating did start to blister severely. Salt fog testing caused severe failure from the Tectyl coating within 120 hours. The two Cortec coatings effectively protected for the 600 hours test duration.