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Comparing VpCI-325 to Mobilarma Product

Purpose:	To compare the corrosion protection of VpCI-325 to the Mobilarma product.
Method:	ASTM D-1748 humidity cabinet
Materials:	Two cast parts Mobilarma oil-based RP VpCI-325 Methanol
Procedure:	The following procedure was used:
	 The two parts arrived and were visually inspected. a. Each part had two VpCI-101 emitters on it. These were removed (as much as possible) prior to testing. Each part was then cleaned with methanol. Next, the parts were coated. a. One part was coated with the submitted Mobilarma product b. One part was coated with VpCI-325. After coating, the parts were allowed to dry overnight. Both parts were then placed in ASTM D-1748 humidity cabinet. Parts were visually inspected periodically. After 336 hours, parts were removed from ASTM D-1748 humidity cabinet. Both parts were visually inspected and photographed.
Results:	The following results were found:
Conclusion:	 The first part, coated with the submitted Mobilarma product, showed significant corrosion after 96 hours in humidity testing. After 336 hours, corrosion covered ~10% of the surface area of the part. The second part, coated with VpCI-325, showed very little corrosion after 336 hours. Corrosion covered less than 1% of the surface area of the part. The corrosion protection difference between the two products was significant. VpCI-325 provided significantly better corrosion protection in humidity testing. In addition, VpCI-325 is a vegetable oil based product, which makes it more environmentally friendly than most traditional oil based products.



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Figure 2: Part coated with Mobilarma, after 336 hours in humidity testing.



Figure 3: Part coated with VpCI-325, after 336 hours in humidity testing.

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