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ASTM B117, Testing of ECRA-SH (LME) coated aluminium panels

Results of the above testing: as per attached report

This report was prepared and reviewed by:

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Test Report

Client : Pole Star Coil Pvt. Ltd
Contact/Reported to : Mr Viveck Varma
Date : 15.02.2011
Test requirement : ASTM B117, Salt Spray Test
Reference : B117/S1-5/BC030184-5000
Sample details : ECRA-SH Jade Green, Super Hydrophobic (LME)
Substrate : Standard aluminium plates, 152 x 75 mm
Sample number : 5 plates

Test details : ASTM B117
Exposure Duration : 10000 Hours
Exposure Conditions : as per ASTM B117

Abstract

Pole Star Coil Pvt. Ltd has provided 5 green coated samples on standard aluminium test plates for ASTM B117 5000 hour exposure testing.

The coating was identified as ECRA-SH (LME). LME is understood to stand for 'Liquid mercury effect'. The samples supplied indicated 20µl water droplet contact angle to painted substrate of 160 to 163°. Coating thickness range was within 9 to 11 microns.

Two samples were exposed to the salt spray at an angle of 5° off horizontal, due to the unusually rapid salt spray condensate run off.

Test Results

Parameter	3000 hours	5000 hours	10000 hours
Blistering/post test	No blistering	No blistering	No blistering
Surface rust/post test	Nil detected	Nil detected	Nil detected
Corrosion/post test	Nil detected	Nil detected	Nil detected

Test rating

All samples tested exceeded the specification requirements with a rating of ≥ 6 after 3000, 5000 and 10000 hours.

Conclusion

All five samples tested exhibited exceptional coating qualities, corrosion resistance and overall performance. All samples exhibited super hydrophobic phenomena before and after testing.