

Prohesion Testing

For

Oxifree Global

Final Report

Work Carried Out By

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Final Report


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Work Requested Prohesion Testing

Samples Submitted Clad Steel Panels

Work Carried out by

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Approved by

P. Collins, T. Glazier
Authorised Signatory

Note – Opinions and interpretations expressed herein, and tests marked with an asterisk, are outside the scope of UKAS accreditation. A full copy of our UKAS schedule is available upon request.

1 Materials Submitted For Testing

Three encapsulated steel panels. One panel was supplied with a cut/scribe though the cladding face.

2 Test Procedure

The samples were subjected to 1000 hours of Modified Salt Spray testing to ASTM G85-09, Annex A5 –Dilute electrolyte cyclic fog/dry test. After this period the samples were removed and inspected for signs of attack. A section of the cladding was then removed from the scribed and one of the un-scribed assemblies to allow examination of the encapsulated steel panel.

3 Results and Observations

Upon completion of the exposure the cladding had split at the scribe location to reveal the steel panel. The cladding on the two un-scribed assemblies showed no sign of attack or damage.

Removal of the cladding from the scribed assembly showed one small rust spot at a location 22mm from the scribe. The steel panel from the un-scribed assembly showed no sign of rusting or attack.



Scribed Assembly



Unscribed Assembly



Unscribed Assembly

4 Conclusions

The cladding maintains a good seal, fully protecting the underlying paintwork if it is undamaged. When scored through, the cut edges gradually open out and this has allowed a small amount of the salt solution to run under the cladding causing a rust spot at a pinhole in the coating.

End of Report

TJG:



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