

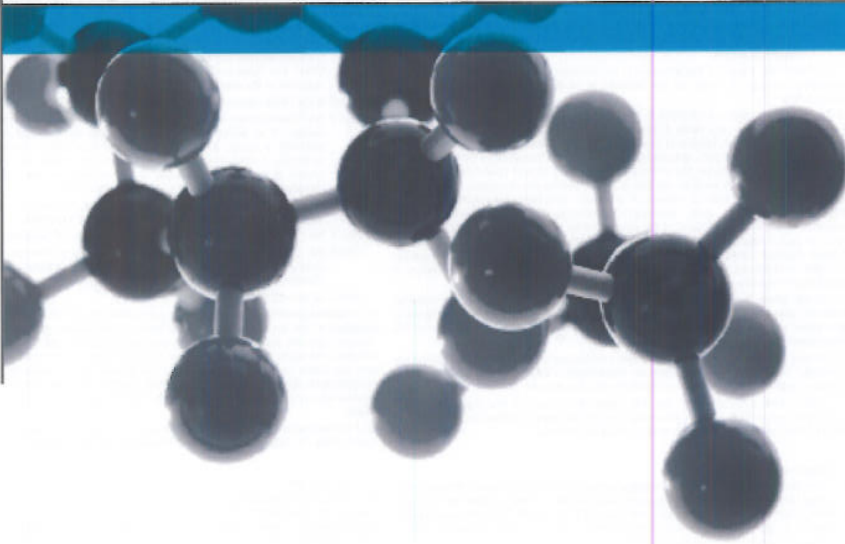
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Test Certificate

Qualification Testing of Acrylic Topcoat in Accordance with ASTM D4587:2005



UV resistance testing of coated steel panels

A Report To: DYO A.S.

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Issue No.: 2

Page 1

Testing
Advising
Assuring

Registered Office: Exova (UK) Ltd, Lochend Industrial Estate, Newbridge, Midlothian EH28 8PL United Kingdom. Reg No.SC 70429

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The contents of this report are governed by the terms and conditions overlaid.

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Revision History

Issue No : 2	Re - Issue Date : 17/11/2011
Revised By: Christopher Newton	Approved By: Daniel Fielding
Reason for Revision: Correction of paint names	

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1.0 INTRODUCTION

- 1.1. At the request of DYO A.S., Exova Coatings was instructed to carry out testing of coated steel panels in accordance with ASTM D4587:2005.
- 1.2. Exova Coatings has tested the items supplied by DYO A.S., as sampled in accordance with the clients own requirements.
- 1.3. The purpose of the testing was to evaluate the performance of the supplied material under specified test conditions.

2.0 TEST SPECIMENS

- 2.1. 2x test specimens were received by the Laboratory: 'Panel 5' & 'Panel 6'.
- 2.2. The constituent coats of the panels were as follows:

Primer: P08 DYPOX ZINC PRIMER-08
 Intermediate Coat: R71 DYPOX MIDCOAT-71
 Top Coat: C71 DYOPOL HS TOPCOAT-71 RAL 9010

- 2.3. Dry film thickness:

Sample	DFT (µm)		
	Min	Max	Ave
Panel 5	243	413	337
Panel 6	200	388	289

3.0 TEST METHOD

- 3.1. Testing was carried out in accordance with ASTM D4587:2005 cycle 2.

Test conditions:-

ASTM D4587:

Equipment: QUV machine (serial number 05-13722-73-SE)
 Lamps: UVA 340
 Irradiance: 0.89 W/m²/nm
 Exposure cycle: 4hrs UV at 60°C (±3°C) – black panel temperature.
 4hrs condensation at 50°C (±3°C) – black panel temperature.
 Exposure duration: 504 hrs
 Specimen mounting: Vertically within QUV machine racks
 Specimen rotation: None

4.0 TEST RESULTS

- 4.1. Evaluated in accordance with ISO 2813 and ISO 7724-2:

Sample	Gloss retention (%)	Colour change (DE)
Panel 5	96.5	0.21
Panel 6	100.4	0.36

The results contained within this report have been reported in an abbreviated format. The test data and result sheets containing more detailed information in accordance with the technical works procedures or standards used are held at Exova as part of the accredited quality assurance system. Opinions and interpretations expressed herein are outside the scope of the UKAS accreditation of this laboratory.

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Report Signatories and Approval

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