

ASTM 加速老化試驗報告

NELSON TESTING LABORATORIES

Construction Materials
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February 15, 2007

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KeimFarben
Keistrasse 16
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Germany

REPORT OF TESTS

SUBJECT: Accelerated Weathering Testing

PROJECT: KeimFarben - Plant Research/Certification Program

TEST METHODS: ASTM G154-04 "Standard Practice for Operating Fluorescent light apparatus for UV exposure of nonmetallic materials"

PRODUCT IDENTIFICATION: Keim Royalan - White

TEST SCOPE: The test method covers the basic principles and operation procedures for using fluorescent ultraviolet and condensation apparatus to simulate the deterioration caused by sunlight and water as rain.

TEST SPECIMENS: Three concrete masonry unit specimens were constructed and used as the substrate prisms for the application of the Keim Royalan Coating product.

TEST PROCEDURE: Three coated test specimens were placed in the test chamber and subjected to alternating cycles of four (4) hours of ultraviolet (UV) lights at 60° C and then four (4) hours of condensation at 50° C. The duration of the test is a period of twelve (12) weeks.

TEST START DATE: November 15, 2006

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TEST RESULTS:

Visual Observation
Accelerated Weathering Test

Number of Hours of Exposure

168/1 week	No crazing, cracking, chipping, flaking, chalking or any other deterioration of the materials
336/2 weeks	No crazing, cracking, chipping, flaking, chalking or any other deterioration of the materials
504/3 weeks	No crazing, cracking, chipping, flaking, chalking or any other deterioration of the materials
672/4 weeks	No crazing, cracking, chipping, flaking, chalking or any other deterioration of the materials
1008/5 weeks	No crazing, cracking, chipping, flaking, chalking or any other deterioration of the materials
1512/9 weeks	No crazing, cracking, chipping, flaking, chalking or any other deterioration of the materials
2016/12 weeks	No crazing, cracking, chipping, flaking, chalking or any other deterioration of the materials

SUMMARY

After 12 weeks of exposure to the ASTM G 154 test apparatus, the Keim Royalan coating showed no signs of crazing, cracking, chipping, flaking, chalking or any other deterioration.

Respectfully submitted

NELSON TESTING LABORATORIES



Mark R. Nelson
Principal