

TEST REPORT

L'ISOLANTE K-FLEX SRL
Attn: Dr. Andrea Marengi
VIA DON LOCATELLI 35
20040 RONCELLO (MI)
ITALY

TEST NUMBER: AS17144
CLIENT REFERENCE: P.O. # Credit Card
Order form dated 5/29/03
Client Code 'LKFS'

REPORT NUMBER: 4
EXPOSURE START DATE: June 11, 2003
REPORT INTERVAL: 24 Months of 24 Months
Date: June 11, 2005

This Report Contains 1 Test Part

Reviewed By:

Marge Awarski
Operations Coordinator
Evaluation Services

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GOVERNING STANDARDS

Exposure

ASTM G 7 - 97

Practice for Atmospheric Environmental Exposure Testing of
Non-metallic Materials

ASTM G 147 - 02

Standard Practice for Conditioning and Handling of Nonmetallic
Materials for Natural and Artificial Weathering Tests

Evaluation

ASTM D 714 - 02

Method for Evaluating Degree of Blistering of Paints

ASTM D 4214-97

Test Methods for Evaluating Degree of Chalking of Exterior Paint Films
METHOD A
CLOTH METHOD

ASTM D 660-93 (2000)

Method for Evaluating Degree of Checking of Exterior Paints

ASTM D 1729-96 (2003)

Practice for Visual Appraisal of Color and Color Difference of
Diffusely-Illuminated Opaque Materials

ASTM D 661-93 (2000)

Method for Evaluating Degree of Cracking of Exterior Paints

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EXPOSURE MEASUREMENT DATA

Exposure testing is performed in New River, AZ (34°N) in accordance with Governing Standards at a tilt angle of 45° from the horizontal facing south. The specimens are mounted unbacked on a 1643 x 3586 mm aluminum exposure rack, with gravel groundcover, and the foam side facing the sun.

VISUAL MEASUREMENT DATA

General visual evaluations are performed in accordance with client instructions. Specimens inspected indoors are illuminated by overhead Macbeth D65 fluorescent lamps simulating average daylight, with illumination between 810 lux and 1880 lux. The surround and ambient field of the inspection area are neutral gray in color. Please refer to the governing standards section of this report for further details.

WASH MEASUREMENT DATA

Washings are performed on the entire surface of the specimens with deionized water in accordance with client instructions. The specimens are wiped with a damp sponge, rinsed with deionized water and allowed to air dry.

VISUAL CODE LEGEND

COLOR CHNGE WASH	= VISUAL COLOR, WASHED AREA
CHALK UNWSH	= CHALKING, UNWASHED AREA
CRACK WASH	= CRACKING, WASHED AREA
BLIST WASH	= BLISTERING, WASHED AREA
DELAM WASH	= DELAMINATION, WASHED AREA
CHECK WASH	= CHECK, WASHED AREA

RATING SCALES

CHECKING TYPE

A= long line
B= irregular
C= short parallel
D= short random
E= crowsfoot

CRACKING TYPE

F= switch
G= sigmoid
H= shrinkage
J= mosaic
A= long line
B= irregular
G= sigmoid



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BLISTERING SIZE

10 = None
8 = < 1mm seen with unaided eye
6 = 1mm
4 = 2mm - 3mm
2 = 4mm - 5mm
0 = > 5mm

BLISTERING FREQUENCY

f = few
m = medium
md = medium dense
d = dense

	ASTM	VISUAL COLOR
10	None	B Bleaching
8	Trace	D Darkening
6	Slight	F Fade
4	Moderate	BR Bronzing
2	Severe	M Mottled
0	Failure	Y Yellowing
		G Greying
		DC Discolor

GENERAL OBSERVATIONS, DEVIATIONS, OR WAIVERS

Notes contained in relevant documents are an integral part of a test, and shall be included by the client in discussions, correspondence, and presentation of test results to a third party. This Test Report represents only one part of the test documentation. Interim reports and other test documentation may have been submitted prior to this date. Test results reported are pertinent only to the items tested and are not relevant to other specimens of the same type, or in the same lot, which are not being tested. Test Reports, and/or other pertinent test documentation, shall not be reproduced, except in full, without the written approval of Atlas Weathering Services Group and so certified by the client.



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Report Number: 4
Test Part: 1 of 1
Date: June 11, 2005

TEST PART 1

EXPOSURE DATA

Location: New River, Arizona
Exposure Period: June 11, 2003 to June 11, 2005
Type of Test: DIRECT 45 DEG SOUTH, OPEN BACKING

Radiant Energy: Total: 15,966 MJ/m²; 381,606 Langleys
UV: 691 MJ/m² (295-385 nm)

OBSERVATIONS, DEVIATIONS, OR WAIVERS

6/8/03 - Initial Inspection
Specimens were received in good condition with no visible defects.

12/11/03 - 6 Month Inspection
* = Clear topcoat is delaminating
= Foam lifting from edges of metal substrate

L'ISOLANTE K-FLEX SRL

Test Number: AS17144
 Report Number: 4
 Test Part: 1 of 1
 No. of Specimens this Part: 9
 Type of Test: DIRECT 45 DEG SOUTH
 OPEN BACKING
 Date: June 11, 2005

VISUAL EVALUATION RESULTS

SPECIMEN NUMBER	COLOR					
	CHNGE WASH	CHALK UNWSH	CRACK WASH	BLIST WASH	DELAM WASH	CHECK WASH
Evaluation Interval:	24 Months	OF	24 Months			
K-FLEX ALU-UV-1	7D	10	10	10	1*	10
K-FLEX ALU-UV-2	7D	10	10	10	1*	10
K-FLEX ALU-UV-3	7D	10	10	10	1*	10
NEW K-FLEX COLOR-4	8F,M	8	6D	10	8#	8D
NEW K-FLEX COLOR-5	8F,M	8	6B	10	7#	8B
NEW K-FLEX COLOR-6	8F,M	8	8B,D	10	7#	8D
K-FLEX COLOR-UV-7	8F	8	8D	10	7#	10
K-FLEX COLOR-UV-8	8F	8	9D	10	7#	10
K-FLEX COLOR-UV-9	8F	8	9D	10	7#	9D



DSET LABORATORIES
45601 North 47th Avenue
Phoenix, Arizona 85087-7042 USA

Phone: (623) 465-7356
Toll Free: (800) 255-3738
Fax: (623) 465-9409



ISO/IEC 17025
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