

## TEST REPORT

**L'ISOLANTE K-FLEX SRL**  
**Attn: Mr. G. Bargozzi**  
**VIA DON LOCATELLI 35**  
**20040 RONCELLO (MI)**  
**ITALY**

**TEST NUMBER: AS14678**  
**CLIENT REFERENCE: P.O. # 930/2001/IK**  
**Quote dated 08/24/01**  
**Client Code 'LKFS'**

**REPORT NUMBER: 4**  
**EXPOSURE START DATE: September 28, 2001**  
**REPORT INTERVAL: 24.00 Months of 24.00 Months**  
**Date: September 28, 2003**

*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 - 00**

Method for Evaluating Degree of Checking of Exterior Paints

**ASTM D 1729 - 96**

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

**ASTM D 661 - 00**

Method for Evaluating Degree of Cracking of Exterior Paints

**SFTS-1 (WASH) 92-03-30**

Methods of Cleaning Exposed Specimens Prior to Inspection  
METHOD A  
Washed With Deionized Water and a Soft Sponge

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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 continuous exposure rack, with the coded side facing the sun.

**VISUAL MEASUREMENT DATA**

Evaluations are performed in accordance with client instructions. Please refer to the governing standards section of this report for more 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**

CHALK UNWSH	= CHALKING, UNWASHED AREA
COLOR CHNGE WASH	= VISUAL COLOR, WASHED AREA
PIT.	= PITTING
CRACK WASH	= CRACKING, WASHED AREA
BLIST WASH	= BLISTERING, WASHED AREA
CHECK WASH	= CHECK, WASHED AREA

**RATING SCALES**

<b>CRACK/CHECK TYPE</b>	
A= long line	G= sigmoid
B= irregular	H= branched random
C= short parallel	J= mosaic
D= short random	K= alligator
E= crowsfoot	L= directional mosaic
F= long random	

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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

	<b>ASTM</b>	<b>VISUAL COLOR</b>
10	None	B Bleaching
8	Slight	D Darkening
6	Moderate	F Fade
4	Pronounced	BR Bronzing
2	Severe	M Mottled
0	V. Severe	Y Yellowing
		G Greying
		DC Discolor

**GENERAL OBSERVATIONS, DEVIATIONS, OR WAIVERS**

*Notes contained herein are an integral part of a test, and shall be included by the client in discussions, correspondence, and presentation of tests results to a third party. The Work Order and Specification Sheets are essential parts of this test. 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 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. Test results reported are pertinent to the items tested only and are not relevant to other specimens of the same type or in the same lot which are not tested.*

**L'ISOLANTE K-FLEX SRL**

Test Number: AS14678  
Report Number: 4  
Test Part: 1 of 1  
Date: September 28, 2003

**TEST PART 1**

**EXPOSURE DATA**

**Location:** New River, Arizona  
**Exposure Period:** September 28, 2001 to September 28, 2003  
**Type of Test:** DIRECT 45 DEG SOUTH, OPEN BACKING

**Radiant Energy:** Total: 16,772.54 MJ/m<sup>2</sup>; 400,873 Langleys  
UV: 597.71 MJ/m<sup>2</sup> (295-385 nm)

**OBSERVATIONS, DEVIATIONS, OR WAIVERS**

04/02/02 All samples are delaminating from the steel substrate at the edges. Samples K-FLEX ST COLOR 1,2 and 3 were stuck to the Harrison Mask. The green color delaminated on a strip approximately 2 mm wide across the top.

10/04/02 \* = Lost yellow

**L'ISOLANTE K-FLEX SRL**

Test Number: AS14678  
 Report Number: 4  
 Test Part: 1 of 1  
 No. of Specimens this Part: 16  
 Type of Test: DIRECT 45 DEG SOUTH  
 OPEN BACKING  
 Date: September 28, 2003

**VISUAL EVALUATION RESULTS**

SPECIMEN NUMBER	COLOR			CRACK BLIST CHECK		
	CHALK UNWSH	CHNGE WASH	PIT.	WASH	WASH	WASH
Evaluation Interval:	24.00	Months	OF 24	Months		
MONDOFLEX 1	4	4F,DC	10	4A,H	10	6
MONDOFLEX 2	4	4F,DC	10	4A,H	10	6
N-5 2	4	5F	3	6H	10	6
IC-CLAD 2	10	10	10	10	10	10
IN-CLAD 2	4	7F,DC	10	10	10	10
IN-CLAD 3	4	6F,DC	10	10	10	10
K-FLEX ST-UV/A 2	2	2F,DC	10	2A,B	10	10
K-FLEX ST-UV/A 3	6	2F,DC	10	2A,B	10	10
K-FLEX ST COLOR 2	6	7D	10	4ABGH	10	10
K-FLEX ST COLOR 3	6	7D	10	4ABGH	10	10
K-FLEX STCOLOR UVA 2	6	7F,DC	10	2A,B,L	10	10
K-FLEX STCOLOR UVA 3	6	7F,DC	10	2A,B,L	10	10
K-FLEX ST ALU 2	10	10	10	10	2f	10
K-FLEX ST ALU 3	10	10	10	10	4vf	10
K-FLEX ST-ALU-NET 2	10	7D	10	10	10	10
K-FLEX ST-ALU-NET 3	10	7D	10	10	10	10



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ISO/IEC 17025  
CERT # 717.01

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■ SOUTH FLORIDA TEST SERVICE  
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