

# TEST REPORT: 7191129017-CHM15-03-STF

Date: 05 FEB 2016

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Client's Ref: -

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## SUBJECT

Testing of one coated glass sample

## CLIENT

BFP Advanced Technologies  
33 Damareos Street  
11633 Athens  
Greece

Attn: Dr Papadopoulos Nikolaos

## SAMPLE SUBMISSION DATE

18 Jan 2016

## DATE TEST CONDUCTED

21 Jan to 05 Feb 2016

## SAMPLE DESCRIPTION

One type of sample described as follow, was submitted by the above client:

Substrate : Float Glass ExtraClear  
Brand : Guardian Configurator

Product Name	Test Specimens	Quantity
"SOLAR-SKIN"	Coated glass panel with dimension 460 mm x 320 mm x 5 mm	2
	Coated glass panel with dimension 150 mm x 100 mm x 5 mm	4
	Coated glass panel with dimension 150 mm x 75 mm x 5 mm	4



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**METHOD OF TEST**

All samples were tested as per received.

- 1. ISO 2409 : 2013  
"Paints and varnishes - Cross-cut test"

Spacing between cut : 1 mm  
Tape used : ISO Tape  
Adhesion strength of tape : 9 N/25mm

Classification of Adhesion test results:

0	-	None or 0% area removed
1	-	Less than 5% area removed
2	-	5% - 15% area removed
3	-	15% - 35% area removed
4	-	35% - 65% area removed
5	-	Greater than 65% area removed

- 2. ISO 11998 : 2006  
"Paints and varnishes - Determination of wet-scrub resistance and cleanability of coatings"

Test cycle : 200 cycles

- 3. ISO 11507 : 2007  
"Paints and varnishes - Exposure of coatings to artificial weathering - Exposure to fluorescent UV lamps and water - Method A: Exposure including condensation"

Light Source : Fluorescent UVA-340  
Irradiance : 0.76 W/m<sup>2</sup>/nm  
Exposure condition : Continuous 4 hours UV light at 60°C followed by 4 hours water condensation at 50°C  
Test duration : 200 hours

- 4. Water contact angle measurement

Equipment : FTA188 Video Tensiometer  
Measurement is done with deionized water

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**RESULTS**

Test conducted	"SolarSkin"							
1. Cross-cut adhesion (1 mm spacing)	Classification 0 (None or 0% area removed)							
2. Wet scrub resistance, 200 cycles	Contact angle (°) before test							
	1	2	3	4	5	6	7	Average
	101	100	97	99	99	98	99	99
	Contact angle (°) after test							
	1	2	3	4	5	6	7	Average
	94	97	95	98	93	93	94	95
3. UV accelerated weathering test, 200 hours	Contact angle (°) before test							
	1	2	3	4	5	6	7	Average
	100	100	100	100	99	98	100	100
	Contact angle (°) after test							
	1	2	3	4	5	6	7	Average
	87	89	90	87	90	88	90	89

  
**MS STEPHANIE FOO**  
 ASST. PRODUCT MANAGER

  
**MRS WONG-LIN TAI HOE**  
 SENIOR CONSULTANT  
 COATINGS  
 CHEMICAL & MATERIALS

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July 2011

