

Indoor Advantage™ Gold

2018 Initial Certification Assessment

SCS Environmental Certification Services

Prepared for:

Aristech Surfaces

Solid Surfaces

Headquartered in Florence, KY

Project Work Order: ARI-17-10

1/4/2018



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Indoor Advantage™ Gold Initial Certification Assessment

SCS Global Services, Environmental Certification Services completed a renewal Indoor Advantage™ Gold certification assessment of Aristech Surfaces' Solid Surfaces products manufactured in Florence, KY and Belen, NM. The lead auditor has completed a full assessment of the quality management assessment of each manufacturing site and product emissions review to determine conformance to SCS EC 10.3 - 2014 Indoor Air Quality Performance Standard and CA 01350 (CDPH/EHLB Standard Method v1.2-2017, effective January, 2017). The results of the assessment are included within this assessment report.

This certification assessment has been completed in accordance with SCS' quality management system, ISO 19011 standard auditing practices, ISO 17065 and has been approved by the program manager. If there is a disagreement with the certification decision, please contact the program manager directly.

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Executive Summary

ASSESSMENT SCOPE

Aristech Surfaces Solid Surfaces assessment scope is detailed in the work order ARI-17-10. A change of scope was required to update to SCS-EC10.3-2014e v4.0 and California Specification 01350 Standard Method V1.2.

INDOOR AIR QUALITY CERTIFICATION SUMMARY

The following table details the conformance for Solid Surfaces products that have met Indoor Advantage™ Gold product certification requirements. Products that have met Indoor Advantage™ Gold certification also comply with the following criteria: CDPH/EHLB Standard Method V1.2, School Classroom; CDPH/EHLB Standard Method V1.2, Private Office; and CDPH/EHLB Standard Method V1.2, Single-Family Residence.

CERTIFICATE NUMBER	PRODUCT CATEGORY	CERTIFICATE CHANGES	CONFORMANCE	QUALIFICATIONS	CERTIFICATION PERIOD
SCS-IAQ-04802	Solid Surfaces	(Add) Avonite Surfaces Foundations™, Avonite Surfaces Studio Collection™	Indoor Advantage™ Gold Indoor Air Quality Certified to SCS-EC10.3-2014e v4.0 Conforms to the CDPH/EHLB Standard Method (CA 01350) v1.2-2017 (effective January, 2017) for the school classroom ¹ , private office ¹ , and single-family residence ¹ parameters. Measured Concentration of Total Volatile Organic Compounds (TVOC) : Less than/equal to 0.5 mg/m ³ (in compliance with CDPH/EHLB Standard Method v1.2-2017). 1 Modeled Product Type: Wallcovering	None	January 5, 2018 to January 31, 2019

PRODUCT CONFORMANCE SUMMARY

No Non-Conformance Report (NCR) / Opportunity for Improvement (OFI) /New Information Request (NIR) were issued as a result of this assessment.

1.0 Solid Surfaces Assessment

The following tables provide a progressive review on how products were selected to represent the emission profile for the product category, actual emissions result, and overall product certification results.

1.1 PRODUCT TESTING SAMPLE SELECTION

The following product sample selection is based on the product formulations, ingredients/materials, production processes and known production variability.

PRODUCT CATEGORY	MANUFACTURING SITE	PRODUCT LINE	SUPPORTING DOCUMENTATION	AUDITOR RATIONALE
Solid Surfaces	Florence, KY	MFC 8090 Snowfall	Aristech_IAQ_WC Sheet.xls	All Aristech Solid Surfaces are made of non-emitting such as Acrylic and Polyester. The Thickest version of the Acrylic Solid Surface was selected to represent these materials.

1.2 PRODUCT EMISSIONS RESULTS

The table below summarizes the product emissions results by solid surfaces for the individual volatile organic compounds (VOCs) tested for compliance to CA Specification 01350 (CDPH/EHLB Standard Method v1.2-2017, effective January, 2017) private office, school classroom, and single-family residence parameters when modeled as wallcoverings

1.2.1 Solid Surfaces

PRODUCT LINE	REPORT #/DATE	CREL VOCs	EF (ug/m ² -h) at 96-hrs	Private Office* Results	School Classroom** Results	Single-Family Residence*** Results
MFC 8090 Snowfall	1701635-01 (Unsanded)	Acetaldehyde	4.3	PASS	PASS	PASS
		TVOC	11	PASS	PASS	PASS
	1701635-02 (Sanded)	Acetaldehyde	4.3	PASS	PASS	PASS
		TVOC	23.00	PASS	PASS	PASS

Wallcoverings:

*Key modeling parameters for the private office scenario include an air flow rate of 20.7 m³/hr and wall paint surface area of 33.4m².

**Key modeling parameters for the school classroom scenario include an air flow rate of 191 m³/hr and a wall paint surface area of 94.6m².

*** Key modeling parameters for the single-family residence scenario include an air flow rate of 127 m³/hr and an interior wallboard paint surface area of 779m².

The results for Aristech Surfaces' Solid Surfaces products manufactured in Florence, KY and Belen, NM demonstrate that all 35 targeted CREL VOCs listed in the Standard Method V1.2 are not detected. Therefore, these products are considered of **Minimal Concern**. Minimal concern products require renewal testing every four years after initial certification.

1.3 Lab Testing Requirements

The table below is a checklist of the standard requirements for product testing and report results according to CA 01350 (Standard Method v1.2) and SCS EC10.3-2014.

	REQUIREMENT	SUPPORTING DOCUMENTATION	AUDITOR KEY FINDINGS	ASSESSMENT RESULT
1	Laboratory is a qualified ISO 17025 certified laboratory. [Reference: SCS-EC10.3-2014-Section 6.3.2]	1701635.pdf	MAS is an SCS Approved Laboratory.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
2	The manufacturer has submitted results in accordance with CDPH/EHLB/Standard Method V1.2 (January 2017), [Reference: SCS-EC10.3-2014-Section 6.3.3]	1701635.pdf	Requirement met.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
3	Samples for testing are selected by a SCS auditor or a person authorized by SCS. [Reference: SCS-EC10.3-2014-Section 6.2]	Aristech 2017 Initial Sample Plan.msg	Samples were selected by SCS lead auditor.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
4	The samples are selected from a production lot that is representative of the processes and quality the manufacturer intends to present to the market. [Reference: SCS-EC10.3-2014-Section 6.2]	1701635.pdf	Small-scaled samples represent the typical manufacturing process.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
5	Manufacturer has submitted their nominations for test groups and worst case models accompanied by supportive data in the form of calculations, test results, formulations, and written explanation. [Reference: SCS-EC10.3-2014-Section 6.2]	Aristech_IAQ_WC Sheet.xls Aristech 2017 Initial DRF Complete.msg	Requirement met.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI
6	Samples submitted to the laboratory are in conformance with CDPH/EHLB/Standard Method V1.2 (January 2017), Section 2. [Reference: SCS-EC10.3-2014-Section 6.2]	1701635.pdf	Requirement met.	<input checked="" type="checkbox"/> No Issues <input type="checkbox"/> NCR <input type="checkbox"/> NIR <input type="checkbox"/> OFI

1.4 Quality Management System

The table below includes a review of the ongoing maintenance of the manufacturer's quality management system in accordance to SCS EC10.3-2014

	REQUIREMENT	SUPPORTING DOCUMENTATION	AUDITOR KEY FINDINGS	ASSESSMENT RESULT
1	QMS Certification Valid ISO 9001 or third party certification was submitted (Not Required)	N/A	Aristech is not an ISO 9001 certified company.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
2	Production Flow Chart / Process Description [Reference: SCS-EC10.3-2014-Section 6.5]	Aristech ISO Quality Manual.doc	Requirement met.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
3	Corrective/Preventative Action Procedure [Reference: SCS-EC10.3-2014-Section 6.5]	Aristech ISO Quality Manual.doc	Supporting quality documentation meets requirement.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
4	Product Line Identification and Traceability [Reference: SCS-EC10.3-2014-Section 6.5]	Aristech ISO Quality Manual.doc	Requirement met.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR
5	Disclosure of Product Variability [Reference: SCS-EC10.3-2014-Section 6.5]	Aristech ISO Quality Manual.doc	Requirement met.	<input checked="" type="checkbox"/> No issue <input type="checkbox"/> OFI <input type="checkbox"/> NIR <input type="checkbox"/> NCR

APPENDIX

A.1 Renewal Audit Recommendations

A.1.1 Renewal Sample Selection

The following table represents suggested sample selections for emissions testing for Solid Surfaces. The frequency and required number of samples is dependent on the quality management systems review per manufacturing site and emissions history review completed during each renewal assessment by the auditor.

PRODUCT CATEGORY	MANUFACTURING SITE	PRODUCT LINE	Renewal YEAR	AUDITOR RATIONALE
Solid Surfaces	Florence, KY	MFC 8090 Snowfall	2022	Aristech's Solid Surfaces are considered Minimal Concern based on their emissions data. Minimal Concern products require testing every four years.