

# SMI, Inc.

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Date: 05-Apr-2019  
SMI/REF: 1901-430B

Product: **AIRDAL COATING** (received 11-Feb-2019)

Dilution: As received

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**Boeing D6-7127 Rev P incorporating PDD 6-8 (21 June 12)**  
CLEANING INTERIORS OF COMMERCIAL  
TRANSPORT AIRCRAFT  
Category: Disinfectants

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11.3.1	Sandwich Corrosion	<u>Conforms</u>
11.3.2	Immersion Corrosion Test	<u>Conforms</u>
11.3.3	Rubber Test	<u>Conforms</u>
11.3.4	Sealant Test	<u>Conforms</u>
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11.3.11	Polycarbonate Crazing Test	<u>Conforms</u>

Respectfully submitted,



Patricia D. Viani, SMI Inc.

Client: Decorative Products, GmbH  
 Product: AIRDAL COATING  
 Dilution: As received  
 Boeing D6-7127

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11.3.1 Sandwich Corrosion Test: Corrosion in excess of that on the control panel constitutes failure when tested in accordance with Section 12.1.

	Clad 7075-T6 Aluminum (AMS 4049)	Bare 7075-T6 (AMS 4045) Anodized per BAC 5019 (chromate seal) or MIL-A-8625 Type I with Dichromate Seal
<b>AS RECEIVED</b>	<b>1</b>	<b>1</b>
Control	1	1

Result Conforms

11.3.2 Immersion Corrosion Test: The average weight change of each test specimen shall not exceed  $\pm 10$  mg in a 24 hour immersion period when tested in accordance with Section 12.2.

	<b>AS RECEIVED</b> (Loss per 1" x 2" panel )
Clad 2024-T3 Aluminum (QQ-A-250/5)	<b>&lt; 1.0 mg</b>
Bare 2024-T3 Aluminum (QQ-A-250/4) alodined per MIL-C-5541	<b>&lt; 1.0 mg</b>
Bare 2024-T3 Aluminum (QQ-A-250/4) anodized per MIL-A-8625 Type I	<b>1.1 mg</b>
Bare 7178-T6 Aluminum (QQ-A-250/14) anodized per MIL-A-8625 Type I	<b>2.0 mg</b>

Result Conforms

11.3.3 Rubber Test: Changes in properties shall not exceed the following, when tested in accordance with Section 12.3:

PROPERTY	MAX. CHANGE ALLOWED	AS RECEIVED
Tensile Strength	25 % loss	<b>&lt; 5%</b>
Elongation	25 % loss	<b>&lt; 5%</b>
Volume	$\pm 15\%$ change	<b>&lt; 5%</b>

24 hour immersion at room temperature

Result Conforms

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11.3.4 Sealant Test: The sealant shall not lift at the edges or lose adhesion when tested in accordance with Section 12.4. (*Immersion time 70 ± 2 hours at 120°F ± 5°F*)

**Sealant: BMS 5-95**

**Water control on Sealant BMS 5-95:**

**No lifting or loss of adhesion when pried away from edge**

**AS RECEIVED: Sealant did not lift at the edges or lose adhesion.**

Result Conforms

11.3.5 Painted Surface Test: When tested in accordance with Section 12.5 and Section 7c., the following is required:

- a. Paint film hardness shall not decrease more than 2 pencil hardnesses.
- b. Greater than minimal color change or staining constitutes test failure.

**Paint System: BMS10-83 enamel**

**AS RECEIVED: 0 pencil hardness change; Color change: minimal to none**

Result Conforms

11.3.6 Tedlar Surface Test: When tested in accordance with Section 12.6 and Section 7c., the following is required:

- a. Cracking, scratching or brittleness of exposed specimens constitutes test failure.
- b. Greater than minimal color change or staining constitutes test failure.

**AS RECEIVED: No scratching, color change, or staining evident**

Result Conforms

11.3.7 Vinyl Surface Test: When tested in accordance with Section 12.7 and Section 7c., the following is required:

- a. Cracking, or brittleness of exposed specimens constitutes test failure.
- b. Greater than minimal color change or staining constitutes test failure.

**AS RECEIVED: No scratching, color change, or staining evident**

Result Conforms

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11.3.8 Fabric and Carpet Test: When tested in accordance with Section 12.8 and Section 7c., the following is required:

**Upholstery:**

- a. Greater than minimal color change or staining constitutes test failure.  
**AS RECEIVED: No color change or staining**

Result Conforms

- b. Flammability: maximum values:

PROPERTY	MAXIMUM VALUE	AS RECEIVED
Extinguishing Time	15 seconds	Less than 3 seconds
Burn Length	8 inches	5 inches
Drip Extinguish Time	5 seconds	Less than 3 seconds

Result Conforms

**Carpet:**

- a. Greater than minimal color change or staining constitutes test failure.  
**AS RECEIVED: No color change or staining**

Result Conforms

- b. Flammability: maximum values:

PROPERTY	MAXIMUM VALUE	AS RECEIVED
Extinguishing Time	15 seconds	Less than 3 seconds
Burn Length	8 inches	4 inches
Drip Extinguish Time	5 seconds	Less than 3 seconds

Result Conforms

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11.3.9 Leather and Naugahyde Test: When tested in accordance with Section 12.9 and Section 7c., the following is required:

Application method: paragraph 12.9.2(b)

*Leather:*

- a. *Scratching or brittleness of exposed specimen constitutes test failure.*  
**No cracking or brittleness of exposed specimen.**
- b. *Greater than minimal color change or staining constitutes test failure.*  
**Gray Scale Grade 5 (No perceived difference in color or contrast between original material and tested specimen).**

Result           Conforms          

*Naugahyde:*

- a. *Scratching or brittleness of exposed specimen constitutes test failure.*  
**No cracking or brittleness of exposed specimen.**
- b. *Greater than minimal color change or staining constitutes test failure.*  
**Gray Scale Grade 5 (No perceived difference in color or contrast between original material and tested specimen).**

Result           Conforms          

11.3.10 Flash Point Test: All cleaning candidates having a flash point shall be approved by Fire Protection Engineering before they can be evaluated for use.

**AS RECEIVED: No Flash point observed to \*IBP, 210 °F**  
**\*Initial Boiling Point**

Result           Informational          

11.3.11 Polycarbonate Crazing Test: Any cracking or crazing of the polycarbonate sheet constitutes failure, when tested in accordance with Section 12.11. (*Strain = 0.008; 10 minute exposure*)

**LEXAN 9600:**

**AS RECEIVED: No cracking or crazing**

**BMS8-400 BAC 70913:**

**AS RECEIVED: No cracking or crazing**

Result           Conforms