#### SMI, Inc. 12219 SW 131 Avenue Phone: (305) 971-7047 Miami, Florida 33186-6401 USA Fax: (305) 971-7048 Attn: Jutta Zimmerman 05-Jan-2015 Date: Ropimex R. Opel GmbH Bildstocker Strasse 12 SMI/REF: 1410-213 66538 Neunkirchen Germany Product: BACOBAN (received 17 November 2014) Dilution: As received Page 1 of 5 Boeing D6-7127 Rev P incorporating PDD 6-8 (21 June 12)

CLEANING INTERIORS OF COMMERCIAL

TRANSPORT AIRCRAFT Category: Disinfectants

11.3.1	Sandwich Corrosion	Conforms
11.3.2	Immersion Corrosion Test	Conforms
11.3.3	Rubber Test	Conforms
11.3.4	Sealant Test	Conforms
11.3.5	Painted Surface Test	Conforms
11.3.6	Tedlar Surface Test	Conforms
11.3.7	Vinyl Surface Test	Conforms
11.3.8	Fabric and Carpet Test	Conforms
11.3.9	Leather and Naugahyde Test	Conforms
11.3.10	Flash Point Test	Informational
11.3.11	Polycarbonate Crazing Test	Conforms

Respectfully submitted,

Patricia D. Viani, SMI Inc.

Client:

Ropimex R. Opel GmbH

Product:

Boeing D6-7127

**BACOBAN** 

Dilution: As received

Date: SMI/REF: 05-Jan-2015 1410-213

Page 2 of 5

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 Aluminum (AMS 4045) anodized per Mil-A-8625 Type I
PRODUCT	1	1
Control	1	1

Result Conforms

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

	PRODUCT (mg loss per 1"x2" panel)	RESULT
Clad 2024-T3 Aluminum (QQ-A-250/5)	0.3	PASS
Bare 2024-T3 Aluminum (QQ-A-250/4) alodined per MIL-C-5541	+ 0.7	PASS
Bare 2024-T3 Aluminum (QQ-A-250/4) anodized per MIL-A-8625 Ty I	0.1	PASS
Bare 7178-T6 Aluminum (QQ-A-250/14) anodized per MIL-A-8625 Ty I	+ 3.8	PASS

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	PRODUCT
Tensile Strength	25 % loss	< 1%
Elongation	25 % loss	< 1%
Volume	<u>+</u> 15% change	< 1%

21	hour	immorgion	at	room	tomporatura
24	Hour	IIIIIIersion	al	100111	temperature

Result	Conforms

Client: Product:	Ropimex R. Opel GmbH BACOBAN	Date: SMI/RE	05-Jan-2015 F: 1410-213
Dilution: Boeing D6	As received 6-7127	Page 3	of 5
in s Sea Wa	alant Test: The sealant shall not lift at the accordance with Section 12.4. alant: BMS 5-95 ter control on Sealant BMS 5-95: lifting or loss of adhesion when pried	away from edge	
	PRODUCT: Sealant did not lift at t	he edges or lose	adhesion.
		Result(	Conforms
<del>7</del> c	inted Surface Test: When tested in account, the following is required:  a. Paint film hardness shall in hardnesses.  b. Greater than minimal color chardnesses are the polication method: paragraph 12.5.2(b)	not decrease me	ore than 2 pencil
<del>7</del> c	, the following is required:  a. Paint film hardness shall in the hardnesses.  b. Greater than minimal color chardnesses.	not decrease mo	ore than 2 pencil

Application method: paragraph 12.6.2(b)

Scratching of exposed specimens constitutes test failure.

Greater than minimal color change or staining constitutes test failure.

Result Conforms

PRODUCT: No scratching, color change, or staining of specimens.

Client:

Ropimex R. Opel GmbH

BACOBAN

Date: SMI/REF: 05-Jan-2015 1410-213

Product: Dilution:

As received

Boeing D6-7127

Page 4 of 5

- 11.3.7 <u>Vinyl Surface Test</u>: 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.

Application method: paragraph 12.7.2(b)

# PRODUCT: No scratching, color change, or staining of specimens.

Result	Conforms

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

Application method: paragraph 12.8.2(b)

## **Upholstery:**

a. Greater than minimal color change or staining constitutes test failure.

No color change or staining

Result Conforms

b. Flammability: maximum values:

PROPERTY	MAXIMUM VALUE	PRODUCT
Extinguishing Time	15 seconds	14 seconds
Burn Length	8 inches	6 inches
Drip Extinguish Time	5 seconds	5 seconds

Result Conforms

### Carpet:

a. Greater than minimal color change or staining constitutes test failure.

No color change or staining

Result\_\_\_\_\_Conforms

b. Flammability: maximum values:

MAXIMUM VALUE	PRODUCT
15 seconds	< 3 seconds
8 inches	4 inches
5 seconds	< 3 seconds
	15 seconds 8 inches

Result	Conforms	

Client: Product:	BACOE			Date SMI/	: 'REF:	05-Jan-2015 1410-213	
Dilution: As received Boeing D6-7127				Page 5 of 5			
		laugahyde Test: W	Vhen tested in			ection 12.9 and	
		e following is requi					
Арр	lication me	ethod: paragraph 1	2.9.2(b)				
Leat	ther:						
	a	a. Scratching or brittleness of exposed specimen constitutes test failure.  No scratching or brittleness of exposed specimen.					
	b. (	Greater than minim  No color ch	al color chang ange or stail		constitu	ites test failure.	
				Result	Con	forms	
Nau	gahyde:						
	_						
	b. (	<ul> <li>Greater than minimal color change or staining constitutes test failure.</li> <li>No color change or staining.</li> </ul>					
				Result	Con	forms	
		<u>Fest</u> : All cleaning of ection Engineering l					
		PRODUCT: No fla	ash observed	d to 212°F.			
				Result	Inforr	mational	
11.3.11	sheet o	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	LEXAN 9600:		PRODUCT: No cracking or crazing			
	BMS8-	BMS8-400 BAC 70913: PRODUCT: No cracking or crazing					
				Result	Col	nforms	