

MARSH SHIPPING SUPPLY CO., LLC.

926 McDonough Lake Road Collinsville, IL 62234

**Attention: Michael Strope** 

January 24, 2022 Lab No. E-0184331a Invoice No. INSTL16164 P.O. No. 128027

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**REPORT OF TESTS** 

MATERIAL:

ROLMARK BLACK INK, P/N 20903, LOT# 2771A

SUBJECT:

Testing of Ink (Color, Gloss, Drying Opacity, and Stenciling Tests)

SPECIFICATION:

Commercial Item Description A-A-208D

**METHODS:** 

A-A-208D Section 5.3.1, A-A-208D Section 5.3.2 per AMS-Std-595A,

A-A-208D Section 5.3.3, A-A-208D Section 5.3.5, A-A-208D Section

5.4, and A-A-208D Section 5.5

#### **TEST CONDITIONS:**

Unless otherwise specified, each of the tests that were conducted on the above-referenced materials was conducted in an environment of  $73.5^{\circ}$  F ( $\pm$  2°) and 50% relative humidity ( $\pm$  2%). The samples were received on December 27, 2021. The samples were prepared and tested in the manner as described in the above-referenced specification and test methods. The results of the tests are presented in the following tables.

#### **RESULTS:**

Testing in Accordance with Commercial Item Description A-A-208D:

### **Results for Drying Opacity Testing:**

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.1 (Drying Opacity). The test results are presented in the following table.

TYPE /			D	SECTION rying Opacity (F		)	
IDENTIFICATION	COLOR	Hiding Power (m²/L)	Reflectivity	Scattering Coefficient (m²/L)	Contrast Ratio	Minimum Contrast Ratio	Pass/ Fail
ROLMARK BLACK INK, P/N 20903, LOT# 2771A	Black	38.78	0.03	7.78	1.00	1.00	Pass

Reflectance readings that are <1% are considered zero for the purpose of this test (ASTM D2805-96a 3.2.2.2)



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### **Results for Color Testing:**

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.2, per AMS-Std-595A (Color). The test results are presented in the following table.

	TYPE / SECTION 5.3.2 Color (Visual Comparison)		AMS Reference Standard	Pass/ Fail
J.	ROLMARK BLACK INK, P/N 20903, LOT# 2771A	Black	No. 37038	Pass

### Results for Gloss Testing:

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.3 (Gloss). The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	SECTION 5.3.3 Gloss (60°)	Maximum Acceptable Gloss	Pass/ Fail
ROLMARK BLACK INK, P/N 20903, LOT# 2771A	Black	0.4	10	Pass

### **Results for Stenciling Tests:**

The above-indicated tests were conducted in accordance with A-A-208D Sections 5.3.5, 5.4, and 5.5. The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	CONDITION	SURFACE	SECTION 5.4 Resistance to Rubbing	*SECTION 5.5 Water Resistance
	Black	As-Manufactured	Porous	Pass	Pass
ROLMARK BLACK	Black	As-Manufactured	Non-Porous	Pass	Pass
INK, P/N 20903, LOT# 2771A	Black	14 Days @ 120°F	Porous	Pass	Pass
LO1# 2771A	Black	14 Days @ 120°F	Non-Porous	Pass	Pass

<sup>\*</sup>One hour after stenciling, the specimens were immersed in distilled water at 70°F for 4 hours. The samples were removed and allowed to air-dry for 1 hour.



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REPORT OF TESTS

MATERIAL:

ROLMARK WHITE INK, P/N 20923, LOT# 2921C

SUBJECT:

Testing of Ink (Color, Gloss, Drying Opacity, and Stenciling Tests)

**SPECIFICATION:** 

Commercial Item Description A-A-208D

**METHODS:** 

A-A-208D Section 5.3.1, A-A-208D Section 5.3.2 per AMS-Std-595A,

A-A-208D Section 5.3.3, A-A-208D Section 5.3.5, A-A-208D Section

5.4. and A-A-208D Section 5.5

### **TEST CONDITIONS:**

Unless otherwise specified, each of the tests that were conducted on the above-referenced materials was conducted in an environment of  $73.5^{\circ}$  F ( $\pm$  2°) and 50% relative humidity ( $\pm$  2%). The samples were received on December 27, 2021. The samples were prepared and tested in the manner as described in the above-referenced specification and test methods. The results of the tests are presented in the following tables.

#### **RESULTS:**

Testing in Accordance with Commercial Item Description A-A-208D:

### **Results for Drying Opacity Testing:**

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.1 (Drying Opacity). The test results are presented in the following table.

			D	SECTION rying Opacity (I		)	
TYPE / IDENTIFICATION	COLOR	Hiding Power (m²/L)	Minimum Contrast Ratio	Pass/ Fail			
ROLMARK WHITE INK, P/N 20923, LOT# 2921C	White	12.34	0.83	89.62	0.97	0.90	Pass

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### **Results for Color Testing:**

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.2, per AMS-Std-595A (Color). The test results are presented in the following table.

TYPE / SECTION 5.3.2 Color (Visual Comparison)		AMS Reference Standard	Pass/ Fail	
ROLMARK WHITE INK, P/N 20923, LOT# 2921C	White	No. 37875	Fail	

### Results for Gloss Testing:

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.3 (Gloss). The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	SECTION 5.3.3 Gloss (60°)	Maximum Acceptable Gloss	Pass/ Fail
ROLMARK WHITE INK, P/N 20923, LOT# 2921C	White	2.9	10	Pass

# **Results for Stenciling Tests:**

The above-indicated tests were conducted in accordance with A-A-208D Sections 5.3.5, 5.4, and 5.5. The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	CONDITION	SURFACE	SECTION 5.4 Resistance to Rubbing	*SECTION 5.5 Water Resistance
ROLMARK WHITE INK, P/N 20923,	White	As-Manufactured	Porous	Pass	Pass
	White	As-Manufactured	Non-Porous	Pass	Pass
	White	14 Days @ 120°F	Porous	Pass	Pass
LOT# 2921C	White	14 Days @ 120°F	Non-Porous	Pass	Pass

<sup>\*</sup> One hour after stenciling, the specimens were immersed in distilled water at 70°F for 4 hours. The samples were removed and allowed to air-dry for 1 hour.



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#### REPORT OF TESTS

MATERIAL:

ROLMARK RED INK, P/N 20909, LOT# 2921B

SUBJECT:

Testing of Ink (Color, Gloss, Drying Opacity, and Stenciling Tests)

**SPECIFICATION:** 

Commercial Item Description A-A-208D

**METHODS:** 

A-A-208D Section 5.3.1, A-A-208D Section 5.3.2 per AMS-Std-595A,

A-A-208D Section 5.3.3, A-A-208D Section 5.3.5, A-A-208D Section

5.4. and A-A-208D Section 5.5

#### **TEST CONDITIONS:**

Unless otherwise specified, each of the tests that were conducted on the above-referenced materials was conducted in an environment of  $73.5^{\circ}$  F ( $\pm$  2°) and 50% relative humidity ( $\pm$  2%). The samples were received on December 27, 2021. The samples were prepared and tested in the manner as described in the above-referenced specification and test methods. The results of the tests are presented in the following tables.

### **RESULTS:**

Testing in Accordance with Commercial Item Description A-A-208D:

# **Results for Drying Opacity Testing:**

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.1 (Drying Opacity). The test results are presented in the following table.

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			D	SECTION rying Opacity (F		)	•
TYPE / IDENTIFICATION	COLOR	Hiding Power (m²/L)	Reflectivity	Scattering Coefficient (m²/L)	Contrast Ratio	Minimum Contrast Ratio	Pass/ Fail
ROLMARK RED INK, P/N 20909, LOT# 2921B	Red	5.40	0.10	3.35	0.94	0.80	Pass

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### **Results for Color Testing:**

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.2, per AMS-Std-595A (Color). The test results are presented in the following table.

TYPE / IDENTIFICATION	SECTION 5.3.2 Color (Visual Comparison)	AMS Reference Standard	Pass/ Fail
ROLMARK RED INK, P/N 20909, LOT# 2921B	Red	No. 31136	Fail

### Results for Gloss Testing:

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.3 (Gloss). The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	SECTION 5.3.3 Gloss (60°)	Maximum Acceptable Gloss	Pass/ Fail
ROLMARK RED INK, P/N 20909, LOT# 2921B	Red	0.6	10	Pass

# **Results for Stenciling Tests:**

The above-indicated tests were conducted in accordance with A-A-208D Sections 5.3.5, 5.4, and 5.5. The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	CONDITION	SURFACE	SECTION 5.4 Resistance to Rubbing	*SECTION 5.5 Water Resistance
Re	Red	As-Manufactured	Porous	Pass	Pass
ROLMARK RED	Red	As-Manufactured	Non-Porous	Pass	Pass
INK, P/N 20909,	Red	14 Days @ 120°F	Porous	Pass	Pass
LOT# 2921B	Red	14 Days @ 120°F	Non-Porous	Pass	Pass

<sup>\*</sup> One hour after stenciling, the specimens were immersed in distilled water at 70°F for 4 hours. The samples were removed and allowed to air-dry for 1 hour.



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REPORT OF TESTS

**MATERIAL:** 

ROLMARK YELLOW INK, (LAB SAMPLE)

SUBJECT:

Testing of Ink (Color, Gloss, Drying Opacity, and Stenciling Tests)

**SPECIFICATION:** 

Commercial Item Description A-A-208D

**METHODS:** 

A-A-208D Section 5.3.1, A-A-208D Section 5.3.2 per AMS-Std-595A,

A-A-208D Section 5.3.3, A-A-208D Section 5.3.5, A-A-208D Section

5.4. and A-A-208D Section 5.5

#### **TEST CONDITIONS:**

Unless otherwise specified, each of the tests that were conducted on the above-referenced materials was conducted in an environment of  $73.5^{\circ}$  F ( $\pm$  2°) and 50% relative humidity ( $\pm$  2%). The samples were received on December 27, 2021. The samples were prepared and tested in the manner as described in the above-referenced specification and test methods. The results of the tests are presented in the following tables.

#### **RESULTS:**

Testing in Accordance with Commercial Item Description A-A-208D:

# **Results for Drying Opacity Testing:**

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.1 (Drying Opacity). The test results are presented in the following table.

		SECTION 5.3.1 Drying Opacity (Hiding Power)					
TYPE / IDENTIFICATION	COLOR	Hiding Power (m²/L)	Reflectivity	Scattering Coefficient (m²/L)	Contrast Ratio	Minimum Contrast Ratio	Pass/ Fail
ROLMARK YELLOW INK, (LAB SAMPLE)	Yellow	6.86	0.48	18.86	0.92	0.90	Pass

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### **Results for Color Testing:**

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.2, per AMS-Std-595A (Color). The test results are presented in the following table.

TYPE / IDENTIFICATION	SECTION 5.3.2 Color (Visual Comparison)	AMS Reference Standard	Pass/ Fail	
ROLMARK YELLOW INK, (LAB SAMPLE)	Yellow	No. 33538	Pass	

### Results for Gloss Testing:

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.3 (Gloss). The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	SECTION 5.3.3 Gloss (60°)	Maximum Acceptable Gloss	Pass/ Fail
ROLMARK YELLOW INK, (LAB SAMPLE)	Yellow	2.8	10	Pass

# **Results for Stenciling Tests:**

The above-indicated tests were conducted in accordance with A-A-208D Sections 5.3.5, 5.4, and 5.5. The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	CONDITION	SURFACE	SECTION 5.4 Resistance to Rubbing	*SECTION 5.5 Water Resistance
	Yellow	As-Manufactured	Porous	Pass	Pass
ROLMARK YELLOW	Yellow	As-Manufactured	Non-Porous	Pass	Pass
INK, (LAB SAMPLE)	Yellow	14 Days @ 120°F	Porous	Pass	Pass
	Yellow	14 Days @ 120°F	Non-Porous	Pass	Pass

<sup>\*</sup> One hour after stenciling, the specimens were immersed in distilled water at 70°F for 4 hours. The samples were removed and allowed to air-dry for 1 hour.





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REPORT OF TESTS

**MATERIAL:** 

SPRAY BLACK INK, P/N 30395, LOT# 3221AA

SUBJECT:

Testing of Ink (Color, Gloss, Drying Opacity, and Stenciling Tests)

**SPECIFICATION:** 

Commercial Item Description A-A-208D

**METHODS:** 

A-A-208D Section 5.3.1, A-A-208D Section 5.3.2 per AMS-Std-595A,

A-A-208D Section 5.3.3, A-A-208D Section 5.3.5, A-A-208D Section

5.4, and A-A-208D Section 5.5

### **TEST CONDITIONS:**

Unless otherwise specified, each of the tests that were conducted on the above-referenced materials was conducted in an environment of  $73.5^{\circ}$  F ( $\pm$  2°) and 50% relative humidity ( $\pm$  2%). The samples were received on December 27, 2021. The samples were prepared and tested in the manner as described in the above-referenced specification and test methods. The results of the tests are presented in the following tables.

#### **RESULTS:**

Testing in Accordance with Commercial Item Description A-A-208D:

**Results for Drying Opacity Testing:** 

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.1 (Drying Opacity). The test results are presented in the following table.

		SECTION 5.3.1 Drying Opacity (Hiding Power)					
TYPE / IDENTIFICATION	COLOR	Hiding Power (m²/L)	Reflectivity	Scattering Coefficient (m²/L)	Contrast Ratio	Minimum Contrast Ratio	Pass/ Fail
SPRAY BLACK INK, P/N 30395, LOT# 3221AA	Black	>14	0.04	<1	1.00	1.00	Pass

Reflectance readings that are <1% are considered zero for the purpose of this test (ASTM D2805-96a 3.2.2.2)

**Results for Color Testing:** 

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.2, per AMS-Std-595A (Color). The test results are presented in the following table.

TYPE / IDENTIFICATION	SECTION 5.3.2 Color (Visual Comparison)	AMS Reference Standard	Pass/ Fail
SPRAY BLACK INK, P/N 30395, LOT# 3221AA	Black	No. 37038	Pass

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### Results for Gloss Testing:

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.3 (Gloss). The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	SECTION 5.3.3 Gloss (60°)	Maximum Acceptable Gloss	Pass/ Fail
SPRAY BLACK INK, P/N 30395, LOT# 3221AA	Black	0.4	10	Pass

### **Results for Stenciling Tests:**

The above-indicated tests were conducted in accordance with A-A-208D Sections 5.3.5, 5.4, and 5.5. The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	CONDITION	SURFACE	SECTION 5.4 Resistance to Rubbing	*SECTION 5.5 Water Resistance
	Black	As-Manufactured	Porous	Pass	Pass
SPRAY BLACK INK,	Black	As-Manufactured	Non-Porous	Pass	Pass
P/N 30395,	Black	14 Days @ 120°F	Porous	Pass	Pass
LOT# 3221AA	Black	14 Days @ 120°F	Non-Porous	Pass	Pass

<sup>\*</sup> One hour after stenciling, the specimens were immersed in distilled water at 70°F for 4 hours. The samples were removed and allowed to air-dry for 1 hour.

# **Results for Solids Testing:**

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.4 (Solids). The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR Minimum Acceptable Solids (grams/pint)		Solids (grams/pint)	Pass/ Fail	
SPRAY BLACK INK, P/N 30395,	Black	45	45	Pass	



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REPORT OF TESTS

MATERIAL:

SPRAY WHITE INK, P/N 30400, LOT# 2421CA

SUBJECT:

Testing of Ink (Color, Gloss, Drying Opacity, and Stenciling Tests)

**SPECIFICATION:** 

Commercial Item Description A-A-208D

**METHODS:** 

A-A-208D Section 5.3.1, A-A-208D Section 5.3.2 per AMS-Std-595A,

A-A-208D Section 5.3.3, A-A-208D Section 5.3.5, A-A-208D Section

5.4, and A-A-208D Section 5.5

**TEST CONDITIONS:** 

Unless otherwise specified, each of the tests that were conducted on the above-referenced materials was conducted in an environment of  $73.5^{\circ}$  F ( $\pm$  2°) and 50% relative humidity ( $\pm$  2%). The samples were received on December 27, 2021. The samples were prepared and tested in the manner as described in the above-referenced specification and test methods. The results of the tests are presented in the following tables.

#### **RESULTS:**

Testing in Accordance with Commercial Item Description A-A-208D:

**Results for Drying Opacity Testing:** 

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.1 (Drying Opacity). The test results are presented in the following table.

			SECTION 5.3.1 Drying Opacity (Hiding Power)					
TYPE / IDENTIFICATION	1	Hiding Power (m²/L)	Reflectivity	Scattering Coefficient (m²/L)	Contrast Ratio	Minimum Contrast Ratio	Pass/ Fail	
SPRAY WHITE INK, P/N 30400, LOT# 2421CA	White	0.96	0.76	5.51	0.95	0.90	Pass	

Reflectance readings that are <1% are considered zero for the purpose of this test (ASTM D2805-96a 3.2.2.2)

**Results for Color Testing:** 

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.2, per AMS-Std-595A (Color). The test results are presented in the following table.

TYPE / IDENTIFICATION	SECTION 5.3.2 Color (Visual Comparison)	AMS Reference Standard	Pass/ Fail
SPRAY WHITE INK, P/N 30400, R LOT# 2421CA	White	No. 37875	Fail



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Results for Gloss Testing:

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.3 (Gloss). The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	SECTION 5.3.3 Gloss (60°)	Maximum Acceptable Gloss	Pass/ Fail
SPRAY WHITE INK, P/N 30400, LOT# 2421CA	White	1.9	10	Pass

### **Results for Stenciling Tests:**

The above-indicated tests were conducted in accordance with A-A-208D Sections 5.3.5, 5.4, and 5.5. The test results are presented in the following table.

TYPE / COLOR		CONDITION SURFACE		SECTION 5.4 Resistance to Rubbing	*SECTION 5.5 Water Resistance
SPRAY WHITE INK, P/N 30400, LOT# 2421CA	White	As-Manufactured	Porous	Pass	Pass
	White	As-Manufactured	Non-Porous	Pass	Pass
	White	14 Days @ 120°F	Porous	Pass	Pass
	White	14 Days @ 120°F	Non-Porous	Pass	Pass

<sup>\*</sup> One hour after stenciling, the specimens were immersed in distilled water at 70°F for 4 hours. The samples were removed and allowed to air-dry for 1 hour.

### Results for Solids Testing:

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.4 (Solids). The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	Minimum Acceptable Solids (grams/pint)	Solids (grams/pint)	Pass/ Fail
SPRAY WHITE INK, P/N 30400, LOT# 2421CA	VVhite	53	53	Pass



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REPORT OF TESTS

MATERIAL:

SMART JET, BLACK INK CARTRIDGE, P/N 82706, LOT#

V21K038C1-v2.1

SUBJECT:

Testing of Ink (Color, Gloss, Drying Opacity, and Stenciling Tests)

**SPECIFICATION:** 

Commercial Item Description A-A-208D

**METHODS:** 

A-A-208D Section 5.3.1, A-A-208D Section 5.3.2 per AMS-Std-595A, A-A-208D Section 5.3.3, A-A-208D Section 5.3.5, A-A-208D Section

5.4, and A-A-208D Section 5.5

**TEST CONDITIONS:** 

Unless otherwise specified, each of the tests that were conducted on the above-referenced materials was conducted in an environment of  $73.5^{\circ}$  F ( $\pm$  2°) and 50% relative humidity ( $\pm$  2%). The samples were received on December 27, 2021. The samples were prepared and tested in the manner as described in the above-referenced specification and test methods. The results of the tests are presented in the following tables.

#### **RESULTS:**

Testing in Accordance with Commercial Item Description A-A-208D:

# **Results for Drying Opacity Testing:**

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.1 (Drying Opacity). The test results are presented in the following table.

		SECTION 5.3.1 Drying Opacity (Hiding Power)					
TYPE / IDENTIFICATION	COLOR	Hiding Power (m²/L)	Reflectivity	Scattering Coefficient (m²/L)	Contrast Ratio	Minimum Contrast Ratio	Pass/ Fail
SMART JET, BLACK P/N 82706, LOT#V21K038C1- v2.1	Black	7.05	<0.01	0.03	1.00	1.00	Pass

Reflectance readings that are <1% are considered zero for the purpose of this test (ASTM D2805-96a 3.2.2.2)



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### **Results for Color Testing:**

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.2, per AMS-Std-595A (Color). The test results are presented in the following table.

TYPE / IDENTIFICATION	SECTION 5.3.2 Color (Visual Comparison)	AMS Reference Standard	Pass/ Fail
SMART JET, BLACK P/N 82706, LOT#V21K038C1- v2.1	Black	No. 37038	Pass

### Results for Gloss Testing:

The above-indicated tests were conducted in accordance with A-A-208D Section 5.3.3 (Gloss). The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	SECTION 5.3.3 Gloss (60°)	Maximum Acceptable Gloss	Pass/ Fail
SMART JET, BLACK P/N 82706, LOT#V21K038C1- v2.1	Black	3.9	10	Pass

# **Results for Stenciling Tests:**

The above-indicated tests were conducted in accordance with A-A-208D Sections 5.3.5, 5.4, and 5.5. The test results are presented in the following table.

TYPE / IDENTIFICATION	COLOR	CONDITION	SURFACE	SECTION 5.4 Resistance to Rubbing	*SECTION 5.5 Water Resistance
SMART JET, BLACK P/N 82706, LOT#V21K038C1-	Black	As-Manufactured	Porous	Pass	Pass
	Black	As-Manufactured	Non-Porous	Pass	Pass
	Black	14 Days @ 120°F	Porous	Pass	Pass
v2.1	Black	14 Days @ 120°F	Non-Porous	Pass	Pass

<sup>\*</sup> One hour after stenciling, the specimens were immersed in distilled water at 70°F for 4 hours. The samples were removed and allowed to air-dry for 1 hour.



