

Designation: F 718 – 99

Standard for Shipbuilders and Marine Paints and Coatings Product/ Procedure Data Sheet¹

This standard is issued under the fixed designation F 718; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ϵ) indicates an editorial change since the last revision or reapproval.

This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 The Shipbuilders and Marine Paints and Coatings Product/Procedure Data Sheet² provides on one sheet needed information concerning the characteristics of a specific paint or coating to include generic description, physical properties, surface preparation requirements, application requirements, and safety. The front side of the sheet contains four major, numbered paragraphs and a highlighted section for *Special Safety Precautions*. These paragraphs are as follows:

- I. Generic Type and Description
- II. Manufacturers Data
- III. Properties
- IV. Surface Preparation Minimum Requirements

The back side of the page contains the following paragraphs:

- V. Mixing Procedure
- VI. Application.
- 1.2 The completed data sheets can be used by technical personnel to help evaluate the technical acceptability of a proposed material, by production personnel to evaluate production compatibility of proposed materials and to provide application instructions for selected paints and coatings materials, and by quality control personnel to verify attributes of materials.

2. Referenced Documents

2.1 ASTM Standards:

D 56 Test Method for Flash Point by Tag Closed Tester³ D 93 Test Methods for Flash Point by Pensky-Martens Closed Cup Tester³

D 523 Test Method for Specular Gloss⁴

- D 1650 Test Methods of Sampling and Testing Shellac Varnish⁵
- D 2697 Test Method for Volume Nonvolatile Matter in Clear or Pigmented Coatings⁴
- D 3278 Test Method for Flash Point of Liquids by Small Scale Closed Cup Apparatus⁴
- 2.2 Method
- 24 U. S. Environmental Protection Agency, 40 CFR Ch. 1, Part 60, Appendix A, Determination of Volatile Matter Content, Density, Volume Solids, and Weight Solids of Surface Coatings⁶

3. Instructions for Completing Data Sheet

- 3.1 When filling out the Product/Procedure Data Sheet (see Figs. 1 and 2) remember that the information contained therein will be utilized by both technical and production personnel. Keep it simple and brief but complete. The following instructions are organized by paragraph numbers contained within the data sheet. Also see the two examples attached (Appendix X1).
- 3.2 Paragraph I—Generic Type and Description—Use only known and industry-accepted generic descriptions. See Fig. 1.
- 3.3 Paragraph II—Manufacturers Data—This section is self-explanatory with the possible exception of subparagraph (f). This can be as complete or as brief as the concerned parties desire. For example, a separate attached list of compatible and incompatible topcoats or acceptable cargo exposures could be included. See Fig. 1.
- 3.4 Paragraph III—Properties—This section is also self-explanatory with the possible exception of subparagraph (a). If agreed upon by the concerned parties, a different method for determining volume solids (theoretical coverage) may be substituted. The form should be amended to show method. See Fig. 1.
- 3.5 Special Safety Precautions—This section should contain specific instructions of what to do in the event of skin or eye contact or accidental ingestation, or both. Reference should

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Marine Technology and is the direct responsibility of Subcommittee F25.01 on Structures.

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 Copies of the data sheet are available at a nominal charge from ASTM Headquarters, 100 Barr Harbor Dr., PO Box C700, West Conshohocken, PA 19428-2959. Request Adjunct No. ADJF0718.

³ Annual Book of ASTM Standards, Vol 05.01.

⁴ Annual Book of ASTM Standards, Vol 06.01.

⁵ Withdrawn. See 1997 Annual Book of ASTM Standards, Vol 06.03.

⁶ Superintendent of Documents, Government Printing Office, Washington, DC 20402.

SHIPBUILDERS AND MARINE

PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET NO.

			Date:	Rev.		
ī.	GENERIC TYPE AND DESCRIPTION: Specification Number (If Applicable):					
II.	MANUFACTURERS DATA: (a) MANUFACTURER:	(b) PRODUCT DES	TOWNSTOW.			
	• • • • • • • • • • • • • • • • • • • •	• •	IGNATION:			
	(c) COLOR(S):	(d) USES:				
	(e) TECHNICAL SERVICE REPRESENTATIVE (Include Telephone Nos.):	(f) NOT RECOMME	NDED FOR:			
111.	PROPERTIES:					
	(a) % VOLUME SOLIDS (ASTM D 2697):	•	(ASTM TEST D 93): OR (1 TEST METHOD OR (ASTM TE: METHOD D 32	ASTM D 56): ST		
	(c) WEIGHT PER VOLUME (FTMS141a4184.1):	(d) SHELF LIFE:				
,	(e) VISCOSITY (FTMS141a4281):	(f) PACKAGING:				
	(g) NUMBER OF COMPONENTS:	(h) GLOSS (ASTM	D 523):			
	(i) STORAGE REQUIREMENTS: TEMP. MIN	MAX				
	(j) VOLATILE ORGANIC COMPOUND (EPA TEST METHOD 24):					
	(k) WEIGHT OF DRY FILM (WEIGHT PER AREA AT A GI	VEN THICKNESS)				
	SPECIAL SAFETY PRECA	UTIONS:				
IV.	SURFACE PREPARATION MINIMUM REQUIREMENTS (USE SPI	SCIFIC STANDARD NUMBE	RS):			
	(a) INITIAL -					
	(b) TOUCH-UP -					
	(c) PROFILE(INCLUDE METHOD USED) - MIN	. MAX.				
	(d) SPECIAL INSTRUCTIONS -					
	(e) PRIMER REQUIREMENTS (IF APPLICABLE):					
				(OVER)		

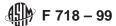
FIG. 1 Data Sheet (Front)

also be made to the appropriate manufacturer's Material Safety Data Sheet. See Fig. 1.

- 3.6 Paragraph IV—Surface Preparation Minimum Requirements:
- 3.6.1 Subparagraphs (a) and (b)—Use an agreed-upon standard that is, ASTM, SSPC, Swedish, NACE, SNAME, etc. See Fig. 1.
- 3.6.2 Subparagraph (c)—Profile data are optional. If used, the profile listed must be given as a range. The method of measurement must be agreed upon by all parties concerned, or this paragraph can be left blank and the type and size of abrasive(s) allowed entered in subparagraph (d), Special Instructions. See Fig. 1.
- 3.7 Paragraph V—Mixing Procedure—This section isself-explanatory with the possible exceptions of subparagraphs (c) and (f). Subparagraph (c) should preferably contain a generic solvent as opposed to a proprietary one. Subparagraph (f) should, as a minimum, contain the mesh size of the straining material and special procedures governing which component should be added to the other. Subparagraph (b), if appropriate, should include length of induction time given as a function of various temperatures. See Fig. 2.
- 3.8 Paragraph VI—Application—This section is one of the most important of the entire form. It must be filled out accurately and completely using all blocks in every paragraph. Subparagraph (c), "Dry Times," is to be used for tank coatings,

v.	MIXI	NG PROCEDURE:
	(=)	MIXING RATIOS BY WEIGHT - BY VOLUME -
	(b)	INDUCTION TIME -
	(c)	RECOMMENDED SOLVENT - THINNING -
		CONFINED AREAS - NON-CONFINED AREAS - CLEAN UP -
	(d)	THINNING REQUIREMENTS (RATIO) -
	(e)	POT LIFE - Hr(s) @ *C
	(f)	SPECIAL INSTRUCTIONS -
VI.	APP	LICATION:
•••		ENVIRONMENTAL LIMITATIONS -
	(/	* TEMP. MIN MAX
		* % RELATIVE HUMIDITY MINMAX
	(p)	FILM THICKNESS (SSPC PA2-73T) - WET MIN. WET MAX. DRY MIN. DRY MAX.
	(c)	DRY TIMES (ASTM D 1650)-RECOAT MIN Hr(s) @*C @ % R.H. MIN Hr(s) @*C @ % R.H. Hr(s) @*C @ % R.H.
		MAX Hr(s) @°C
		TO HANDLE MIN. Hr(s) @ C @ R.H. MIN. Hr(s) @ C @ R.H. MIN. Hr(s) @ C @ R.H.
		FOR IMMERSION MIN Hr(s) @°C MIN Hr(s) @°C MIN Hr(s) @°C
		MAX Hr(s) @°C
	(d)	EQUIPMENT REQUIREMENTS (INCLUDE PREFERRED, SUITABLE AND NOT SUITABLE REQUIREMENTS).
	(e)	SPECIAL INSTRUCTIONS -
* (CAUTIO	ON SHOULD BE TAKEN THAT SURFACE TEMPERATURE IS AT LEAST 3°C ABOVE DEW POINT.

FIG. 2 Data Sheet (Back)



underbottoms, and other speciality areas. Maximum recoat times should be expressed in hours, days, weeks, or months. Equipment requirements should be brief. See Fig. 2.

4. Keywords

4.1 data sheet; marine coatings; marine paints; procedure data sheet; product data sheet

APPENDIX

(Nonmandatory Information)

X1. SAMPLE SHEETS

SHIPBUILDERS AND MARINE

PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET NO. 2-1-1

(j) VOLATILE ORGANIC COMPOUND (EPA TEST M (k) WEIGHT OF DRY FILM (WEIGHT PER AREA A SPECIAL SAFETY	Red 40-DX-16, White 40-DX-17, Blue 40-DX-18 (d) USES: Ballast Tanks (f) NOT RECOMMENDED FOR: High temperature service above 60°C (b) FLASH POINT (ASTM TEST METHOD D 93); OR (ASTM TEST METHOD D 56); OR (ASTM TEST METHOD D 3278): 38°C 4 kg/l (d) SHELF LIFE: 24 months (f) PACKAGING: 2 premeasured metal containers, one packaged inside the other (h) GLOSS (ASTM D 523): Eggshell IIN18°C MAX. 60°C					
(a) MANUFACTURER: R-Equal Paint Mfg. Co. (c) COLOR(S): Red, White, Blue (e) TECHNICAL SERVICE REPRESENTATIVE (Include Telephone Nos.): (000) 000-0 Mr. Good Brush (000) 000-0000 (FAX) (II. PROPERTIES: (a) % VOLUME SOLIDS (ASTM D 2697): (c) WEIGHT PER GALLON (FTMS141a4184.1): 1. (e) VISCOSITY (FTMS141a4281): 120 K.U. (g) NUMBER OF COMPONENTS: 2 (i) STORAGE REQUIREMENTS: TEMP. M (j) VOLATILE ORGANIC COMPOUND (EPA TEST M (k) WEIGHT OF DRY FILM (WEIGHT PER AREA A	Red 40-DX-16, White 40-DX-17, Blue 40-DX-18 (d) USES: Ballast Tanks (f) NOT RECOMMENDED FOR: High temperature service above 60°C (b) FLASH POINT (ASTM TEST METHOD D 93); OR (ASTM TEST METHOD D 56); OR (ASTM TEST METHOD D 3278): 38°C 4 kg/l (d) SHELF LIFE: 24 months (f) PACKAGING: 2 premeasured metal containers, one packaged inside the other (h) GLOSS (ASTM D 523): Eggshell IIN18°C MAX. 60°C					
(e) TECHNICAL SERVICE REPRESENTATIVE (Include Telephone Nos.): (000) 000-0 Mr. Good Brush (000) 000-0000 (FAX) III. PROPERTIES: (a) % VOLUME SOLIDS (ASTM D 2697): 50% (c) WEIGHT PER GALLON (FTMS141a4184.1): 1. (e) VISCOSITY (FTMS141a4281): 120 K.U. (g) NUMBER OF COMPONENTS: 2 (i) STORAGE REQUIREMENTS: TEMP. M (j) VOLATILE ORGANIC COMPOUND (EPA TEST M (k) WEIGHT OF DRY FILM (WEIGHT PER AREA A	(f) NOT RECOMMENDED FOR: High temperature service above 60°C (b) FLASH POINT (ASTM TEST METHOD D 93); OR (ASTM TEST METHOD D 56); OR (ASTM TEST METHOD D 3278): 38°C 4 kg/l (d) SHELF LIFE: 24 months (f) PACKAGING: 2 premeasured metal containers, one packaged inside the other (h) GLOSS (ASTM D 523): Eggshell IIN18°C MAX. 60°C					
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(c) WEIGHT PER GALLON (FTMS141a4184.1): 1. (e) VISCOSITY (FTMS141a4281): 120 K.U. (g) NUMBER OF COMPONENTS: 2 (i) STORAGE REQUIREMENTS: TEMP. M (j) VOLATILE ORGANIC COMPOUND (EPA TEST M (k) WEIGHT OF DRY FILM (WEIGHT PER AREA A	OR (ASTM TEST METHOD D 3278): 38°C 4 kg/l (d) SHELF LIFE: 24 months (f) PACKAGING: 2 premeasured metal containers, one packaged inside the other (h) GLOSS (ASTM D 523): Eggshell IIN18°C MAX. 60°C					
(e) VISCOSITY (FTMS141a4281): 120 K.U. (g) NUMBER OF COMPONENTS: 2 (i) STORAGE REQUIREMENTS: TEMP. M (j) VOLATILE ORGANIC COMPOUND (EPA TEST M (k) WEIGHT OF DRY FILM (WEIGHT PER AREA A	(f) PACKAGING: 2 premeasured metal containers, one packaged inside the other (h) GLOSS (ASTM D 523): Eggshell (IN18°C MAX. 60°C					
(g) NUMBER OF COMPONENTS: 2 (i) STORAGE REQUIREMENTS: TEMP. M (j) VOLATILE ORGANIC COMPOUND (EPA TEST M (k) WEIGHT OF DRY FILM (WEIGHT PER AREA A	containers, one packaged inside the other (h) GLOSS (ASTM D 523): Eggshell (IN18°C MAX. 60°C					
(i) STORAGE REQUIREMENTS: TEMP. M (j) VOLATILE ORGANIC COMPOUND (EPA TEST M (k) WEIGHT OF DRY FILM (WEIGHT PER AREA A SPECIAL SAFETY	IN18°C MAX. 60°C					
(j) VOLATILE ORGANIC COMPOUND (EPA TEST M (k) WEIGHT OF DRY FILM (WEIGHT PER AREA A SPECIAL SAFETY						
(k) WEIGHT OF DRY FILM (WEIGHT PER AREA A	ETHOD 24):					
SPECIAL SAFETY						
**-*	(k) WEIGHT OF DRY FILM (WEIGHT PER AREA AT A GIVEN THICKNESS)					
**-*	DDECRIMITANG.					
Department of Labor Material Safety Data Sheet	on and may cause respiratory reaction. Keep only with adequate ventilation. See U.S. for additional information					
SURFACE PREPARATION MINIMUM REQUIREMENTS (USE SPECIFIC STANDARD NUMBERS):						
(a) INITIAL - Near White Blast, SSPC-SP- For Recoat - First coat must be clean has expired	10 and dry. Mechanically etch if recoat time					
(b) TOUCH-UP - Same as above. Limited po	wer tool cleaning using disk grinders					
(c) PROFILE(INCLUDE METHOD USED) - Gardner Model 123 Profile meter	MIN. 40 MIC. MAX. 100 MIC.					
(d) SPECIAL INSTRUCTIONS - Do not use pow	(d) SPECIAL INSTRUCTIONS - Do not use power wire brush					
(e) PRIMER REQUIREMENTS (IF APPLICABLE): considered the prime coat	Material is self-priming. The first coat					

FIG. X1.1 Sample Sheet (Front)

٧.	MIXI	NG PROCEDURE:
	(a)	MIXING RATIO BY WEIGHT - 3.5 kg powder to 2.6 kg liquid BY VOLUME - liter powder to 3.1 liters liquid
	(p)	INDUCTION TIME - none
	(c)	RECOMMENDED SOLVENT - THINNING - CONFINED AREAS - #1 Solvent NON-CONFINED AREAS - #2 Solvent CLEAN UP - Cellosolve Acetate
	(d)	THINNING REQUIREMENTS (RATIO) - 10 % maximum
	(e)	POT LIFE -
	(f)	SPECIAL INSTRUCTIONS -
	Ke	rain mixture through #30 mesh screen. pp mixture under constant agitation. not thin in VOC compliant areas.
VI.	APP	LICATION:
(a)	ENV	IRONMENTAL LIMITATIONS - * TEMP. MIN20°C MAX 80°C
		* % RELATIVE HUMIDITY MIN. 40% MAX. 95%
(b)	FIL	M THICKNESS (SSPC PA2-73T) - WET MIN. 3.0 WET MAX. See Special Instructions DRY MIN. 0.9 DRY MAX. See Special Instructions
(c)		TIMES (ASTM D 1650)-RECOAT MIN. 24 Hr(s) @ -80 °C @ 50 % R.H. MIN. 12 Hr(s) @ 18 °C @ 50 % R.H. MIN. 8 Hr(s) @ 28 °C @ 50 % R.H.
		MAX. N.A. Hr(s)
		TO HANDLE MIN. 0.25 Hr(s) 28 °C @ 50 % R.H. MIN. 0.50 Hr(s) 15 °C @ 50 % R.H. MIN. 1.00 Hr(s) -20 °C @ 50 % R.H.
		FOR IMMERSION MIN. N.A. Hr(s) C C C MIN. Hr(s) C C C C C C C C C C C C C C C C C C C
		HAXBr(s)°C
(d)	EQU REQ	IPMENT REQUIREMENTS (INCLUDE PREFERRED, SUITABLE AND NOT SUITABLE UIREMENTS).
Conventional spray-agitated pot, external mix gun with heavy-duty spring & 1.8 m/m tip combination. Airless spray - 5 m/m with 80-125 bar fluid pressure. Brush - Use only for minor touch-up Roller - Do not use.		
(e) and weld Repr	SPE burn iing j resen	CIAL INSTRUCTIONS - Film thickness must be uniformly correct to facilitate welding ing operations. No impact on performance. Qualified for use with the following processes: SAW, Flux Core, Short Arc, MIG, and Stick. Contact Technical tative in Para. II(e) for parameters.
* (CAUTIC	ON SHOULD BE TAKEN THAT SURFACE TEMPERATURE IS AT LEAST 3°C ABOVE DEW POINT.

FIG. X1.2 Sample Sheet (Back)

SHIPBUILDERS AND MARINE

PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET NO. 1-1-1

				
 			Date:	Rev. A
ı.	GENERIC TYPE AND DESCRIPTION: Specification Number (If Applicable): Alkyl (Solver Primer	nt-Based) Inorgani	.c Zinc Sili	icate
II.	MANUFACTURERS DATA: (a) MANUFACTURER: R-Equal Paint Mfg. Co.	(b) PRODUCT DES	GIGNATION:	28-DG-1 Gray
	(c) COLOR(S): Gray	(d) USES: Pred	construction	Primer
	(e) TECHNICAL SERVICE REPRESENTATIVE (Include Telephone Nos.): (100) 242-6000 Mr. Good Brush (000) 000-000 (FAX)	(f) NOT RECOMME Immersion S See Technic for compati	ervice	ntative :s
III.	PROPERTIES:			
	(a) % VOLUME SOLIDS (ASTM D 2697): 30	(b) FLASH POINT	C (ASTM TEST D 93); OR (TEST METHOL OR (ASTM TI METHOD D 32	EST
	(c) WEIGHT PER GALLON (FTMS141a4184.1): 1.4 kg/l	(d) SHELF LIFE:	9 months	
	(e) VISCOSITY (FTMS141a4281): 78 K.U.	(f) PACKAGING:	Premeasured packaged in container. Premeasured in polyuret	n metal
	(g) NUMBER OF COMPONENTS: 2	(h) GLOSS (ASTM		ontainer Lat
	(i) STORAGE REQUIREMENTS: TEMP. MIN. N/A	MAX60°C		
	(j) VOLATILE ORGANIC COMPOUND (EPA TEST METHOD 24): (k) WEIGHT OF DRY FILM (WEIGHT PER AREA AT A GIVEN THICKNESS):			
extr flam	SPECIAL SAFETY PRECAUTION on the contained in this coating are extremely flammableme caution if applying in enclosed areas. Keep aware. Always use with adeugate ventilation. See U.S. Sheet for additional information.	le and may cause	irritation. parks or op or Material	Use en Safety
IV.	SURFACE PREPARATION MINIMUM REQUIREMENTS (USE SPECIAL	FIC STANDARD NUMBE	iRS):	
	(a) INITIAL - Commercial Blast, SSPC-SP 6			
	(b) TOUCH-UP - Power Tool Clean, SSPC-SP3	25 mis		
	(c) PROFILE(INCLUDE METHOD USED) - MIN Gardner Model 123 Profilometer	25 mic. MAX. 90 m	11C.	
	(d) SPECIAL INSTRUCTIONS -			
	Do not use power wire brush for power tool cleaning	J•		
	(e) PRIMER REQUIREMENTS (IF APPLICABLE): None			
				(OVER)

FIG. X1.3 Sample Sheet (Front)

		्मार्ग । ११० – ३३
v.	MIXI	NG PROCEDURE:
	(a)	MIXING RATIO BY WEIGHT - 1kg component A to 1kg of component B BY VOLUME - 1 part component A to 1 part component B
	(b)	INDUCTION TIME - 30 minutes
	(c)	RECOMMENDED SOLVENT - THINNING - CONFINED AREAS - #1 Solvent NON-CONFINED AREAS - #2 Solvent CLEAN UP - 1 part xylene to 1 part MIBK
	(d)	THINNING REQUIREMENTS (RATIO) - 25% maximum
	(e)	POT LIFE - 8 Hr(s) @ 38 °C 12 Hr(s) @ 27 °C 24 Hr(s) @ 4 °C
	(f)	SPECIAL INSTRUCTIONS -
	Ke me	ep mixture under constant agitation during application. Strain mixture through $ extit{\sharp}30$ sh strainer.
VI.	APP	LICATION:
	(a)	
	,	* TEMP. MIN. 10°C MAX. 50°C
		* % RELATIVE HUMIDITY MIN
	(b)	FILM THICKNESS (SSPC PA2-73T) - WET MIN. 200 WET MAX. 350 DRY MIN. 100 DRY MAX. 175
	(c)	DRY TIMES (ASTM D 1650)-RECOAT MIN. 24 Hr(s) 27 °C @ 50 % R.H. MIN. 48 Hr(s) 16 °C @ 50 % R.H. MIN. 72 Hr(s) 10 °C @ 50 % R.H.
		MAX. 6 mo. Hr(s) @°C
		TO HANDLE MIN. $\frac{4.0}{2.0}$ Hr(s) $\frac{0}{10}$ °C $\frac{0}{20}$ % R.H. MIN. $\frac{2.0}{1.0}$ Hr(s) $\frac{0}{27}$ °C $\frac{50}{20}$ % R.H. MIN. $\frac{1.0}{1.0}$ Hr(s) $\frac{0}{27}$ °C $\frac{50}{20}$ % R.H.
		FOR IMMERSION MIN. 72 Hr(s) @ 27 °C MIN. 144 Hr(s) @ 16 °C MIN. 288 Hr(s) @
		MAX. N.A Hr(s) @°C
	(d)	EQUIPMENT REQUIREMENTS (INCLUDE PREFERRED, SUITABLE AND NOT SUITABLE REQUIREMENTS).
Air	less	onal spray-agitated pot, external mix spray gun with 1.8 m/m tip combination spray - 5 m/m with 80-125 bar fluid pressure d roller - Minor touch-up only
	(e)	SPECIAL INSTRUCTIONS - This material is to be applied in three coats using alternate color for each coat.

FIG. X1.4 Sample Sheet (Back)

* CAUTION SHOULD BE TAKEN THAT SURFACE TEMPERATURE IS AT LEAST 5°C ABOVE DEW POINT.



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