
NAVSEA REVIEWED ASTM F-718

NCP Coatings, Inc.

N-6974

Paint, Aluminum, Heat Resisting (1200°F)

TT-P-28

If this product is to be applied as part of a coating system, all components of the system must be as listed on the QPL.

This NAVSEA-REVIEWED ASTM F-718 data sheet is the only data sheet approved for use when utilizing this coating for U.S. Navy preservation projects. NAVSEA's review covers only the application process for the material. The review does not denote the material as a qualified product, nor does it constitute an approval for purchase/procurement of the material. For products on the Qualified Products List (QPL) for this MILSPEC, please refer to <https://assist.daps.dla.mil/quicksearch/>. Questions regarding modifications or updates of this ASTM F-718 shall be directed toward:

NST Center
(502) 638-4400
F718Admin@nstcenter.com

ASTM F 718

SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

CONTINUATION SHEET USED: ☐ YES ☒ NO

Date: 09-2010 Rev. 1

I. GENERIC TYPE AND DESCRIPTION: Paint, Aluminum, Heat-Resisting (1200°F)
 Specification Number, Type, Class and/or Grade (If Applicable): TT-P-28

II. MANUFACTURERS DATA:

- (a) MANUFACTURER: NCP Coatings, Inc.
- (b) PRODUCT DESIGNATION: N-6974
- (c) COLOR(S): Aluminum
- (d) USES: Non flaming interior finish
- (e) TECHNICAL SERVICE REPRESENTATIVE
 (Include Telephone Nos.): Carol Rosler, 269-683-3377 ext. 212
- (f) NOT RECOMMENDED FOR: Immersion

III. PROPERTIES:

- (a) % VOLUME SOLIDS (ASTM D 2697): $36 \pm 2.0\%$
- (b) % WEIGHT SOLIDS (ASTM D1475): $44 \pm 2.0\%$
- (c) FLASH POINT (ASTM TEST METHOD D 93 OR D 56 OR D 3278): 100°F minimum
- (d) WEIGHT PER VOLUME: (FTMS 141a4184.1): 11.6 ± 0.2 lbs/gal
- (e) % EDGE RETENTION (IF REQUIRED BY APPLICABLE SPECIFICATION): N/A
- (f) SHELF LIFE: 12 months
- (g) VISCOSITY (TEST METHOD: ASTM D562): 54 – 67 KU
- (h) PACKAGING: Gallons and Five Gallons
- (i) NUMBER OF COMPONENTS: 1
- (j) GLOSS (ASTM D 523): Aluminum Sheen
- (k) STORAGE REQUIREMENTS: TEMP. MIN. 40°F MAX. 100°F
 ADDITIONAL PAINT STORAGE REQUIREMENTS: N/A
- (l) VOLATILE ORGANIC COMPOUND (EPA TEST METHOD 24): 240 g/l (2.0 lbs/gal)
- (m) WEIGHT OF DRY FILM (WEIGHT/FT² AT 1 MIL THICKNESS): 0.018 lbs/ft²
- (n) SPECIAL PROPERTIES (e.g., STAIN RESISTANCE, LOW SOLAR ABSORBANCE, MOISTURE TOLERANCE): N/A

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS (USE SPECIFIC STANDARD NUMBERS):

Prepare surface to a minimum SSPC-SP 10 Near White Metal Blast.

SPECIAL SAFETY PRECAUTIONS:
Use only with adequate ventilation. Keep away from excessive heat. Consult the applicable Material Safety Data Sheet for additional information.

V. MIXING PROCEDURES:

(a) MIXING RATIOS BY WEIGHT – N/A
BY VOLUME – N/A

(b) INDUCTION TIME – N/A

(c) RECOMMENDED SOLVENT – THINNING – Not recommended
 CONFINED AREAS – Not recommended
 NON-CONFINED AREAS – Not recommended
 CLEAN UP – Mineral Spirits

(d) THINNING REQUIREMENTS (RATIO) – N/A

(e) POT LIFE - N/A

(f) SPECIAL INSTRUCTIONS – Mix thoroughly before application. Do not apply unless the surface temperature is at least 5 degrees higher than the dew point. Full hardness of the coating is not achieved until heated at least 1 hr @ 400°F. Proper film thickness is critical.

VI. APPLICATION:

(a) ENVIRONMENTAL LIMITATIONS -

SUBSTRATE TEMPERATURE: MIN. 45°F MAX. 110°F

MINIMUM SUBSTRATE TEMPERATURE DIFFERENCE ABOVE THE DEW POINT – 5°F

RELATIVE HUMIDITY: Less than 85%

AMBIENT TEMPERATURE: MIN. 35°F MAX. 95°F

(b) FILM THICKNESS (SSPC PA2): Per coat DFT: 0.7 – 1.2 mils. Typical application is two coats.

(c) DRY TIMES (ASTM D 1640) –

Dry Times

Recoat	MIN. 50 minutes @ 15.5°C (60°F) @ 50% R.H. MIN. 30 minutes @ 21°C (70°F) @ 50% R.H. MIN. 20 minutes @ 26.7°C (80°F) @ 50% R.H. MAX. None
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To Touch	MIN. 25 minutes @ 15.5°C (60°F) @ 50% R.H. MIN. 15 minutes @ 21°C (70°F) @ 50% R.H. MIN. 10 minutes @ 26.7°C (80°F) @ 50% R.H.
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Service	MIN. 9 Hours @ 15.5°C (60°F) @ 50% R.H. MIN. 8 Hours @ 21°C (70°F) @ 50% R.H. MIN. 6 Hours @ 26.7°C (80°F) @ 50% R.H.
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(d) EQUIPMENT REQUIREMENTS (INCLUDE PREFERRED, SUITABLE, NOT SUITABLE REQUIREMENTS) – Conventional Spray and Airless Spray. Roll or Brush for small areas.

IF PLURAL COMPONENT EQUIPMENT IS REQUIRED, STATE SO – N/A

IF HEATED LINES ARE REQUIRED, STATE SO – N/A

(e) SPECIAL INSTRUCTIONS – N/A

PROVIDE INFORMATION FOR REPAIR PROCEDURES IF THE OVERCOAT WINDOW HAS BEEN EXCEEDED: Clean and abrade surface.