

NoFire Technologies, Inc.

NoFire A-18NV

MIL-PRF-24596

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:

NSWCCD

(215) 897-7411

nswccd_astm_f718@navy.mil

ASTM F 718
SHIPBUILDERS AND MARINE PAINTS AND COATINGS PRODUCT/PROCEDURE DATA SHEET

CONTINUATION SHEET USED: ☐ YES ☒ NO
Date: 14 JUL 2011 Rev.

I. GENERIC TYPE AND DESCRIPTION: Intumescent Fire Protective Coating
Specification Number, Type, Class and/or Grade (If Applicable): MIL-PRF-24596

II. MANUFACTURERS DATA:

- (a) MANUFACTURER: NoFire Technologies, Inc.
- (b) PRODUCT DESIGNATION: A-18NV
- (c) COLOR(S): White, Soft White, Battleship Gray, Pastel Green and various other colors.
- (d) USES: Fire protective, intumescent coating on steel, aluminum, wood and wood products, composites, fiberglass
- (e) TECHNICAL SERVICE REPRESENTATIVE
Customer Service: (201) 818-1616
- (f) NOT RECOMMENDED FOR: Immersion

III. PROPERTIES:

- (a) % VOLUME SOLIDS (ASTM D 2697): 62%
- (b) % WEIGHT SOLIDS (ASTM D 1475): 64.3%
- (c) FLASH POINT (ASTM TEST METHOD D 93 OR D 56 OR D 3278): No flash at 103°C. Temperature exceeded boiling point.
- (d) WEIGHT PER VOLUME: (FTMS 141a4184.1): 11.9 lb/gal (1.43 g/ml)
- (e) % EDGE RETENTION (IF REQUIRED BY APPLICABLE SPECIFICATION): N/A
- (f) SHELF LIFE: Greater than 18 months
- (g) VISCOSITY (ASTM D-562): 80-90 KU
- (h) PACKAGING: 5 gallon pails
- (i) NUMBER OF COMPONENTS: 1
- (j) GLOSS (ASTM D 523): 45-60%
- (k) STORAGE REQUIREMENTS: TEMP. MIN. 40°F MAX. 120°F
ADDITIONAL PAINT STORAGE REQUIREMENTS: N/A
- (l) VOLATILE ORGANIC COMPOUND (EPA TEST METHOD 24): 40.2 g/L
- (m) WEIGHT OF DRY FILM (WEIGHT/FT² AT 1 MIL THICKNESS): 2.7 g
- (n) SPECIAL PROPERTIES (e.g., STAIN RESISTANCE, LOW SOLAR ABSORBANCE, MOISTURE TOLERANCE): N/A

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS: Refer to NAVSEA Standard Item 009-32

SPECIAL SAFETY PRECAUTIONS:
RESPIRATORY PROTECTION: NONE REQUIRED. VENTILATION: OPEN WINDOW
EYE PROTECTION: SAFETY GLASSES
OTHER PROTECTIVE EQUIPMENT: FULL LENGTH CLOTHING TO AVOID PROLONGED & REPEATED CONTACT

V. MIXING PROCEDURES:

- (a) MIXING RATIOS BY WEIGHT - N/A
BY VOLUME - N/A
- (b) INDUCTION TIME - N/A
- (c) RECOMMENDED SOLVENT – THINNING – NO THINNING ALLOWED
CONFINED AREAS - NO THINNING ALLOWED
NON-CONFINED AREAS - NO THINNING ALLOWED
CLEAN UP - Water
- (d) THINNING REQUIREMENTS (RATIO) – NO THINNING ALLOWED
- (e) POT LIFE - N/A
- (f) SPECIAL INSTRUCTIONS – Mix thoroughly before use

VI. APPLICATION:

- (a) ENVIRONMENTAL LIMITATIONS -

SUBSTRATE TEMPERATURE: MIN. 40°F MAX. 100°F

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

RELATIVE HUMIDITY: 85% Maximum

AMBIENT TEMPERATURE: MIN. 40°F MAX. 100°F

- (b) FILM THICKNESS (SSPC-PA 2):

PER COAT:

WET MIN. 1.5 mils WET MAX. 20 mils

DRY MIN. 1 mil DRY MAX. 14 mils

TOTAL SYSTEM:

DRY MIN. 1 mil DRY MAX. 60 mils

- (c) DRY TIMES (ASTM D 1640) –

Temperature (@50% R.H.)	Recoat	To Touch	To Handle	For Service
40°F	5 hours	5 hours	8 hours	48 hours
77°F	2 hours	2 hours	4 hours	24 hours
100°F	1 hour	1 hour	2 hours	18 hours

- (d) EQUIPMENT REQUIREMENTS:

Brush: Nylon/Polyester, Natural Bristle

Roller: 3/8" – 1/2" woven with phenolic core

Airless Spray: Min. pressure 3000 psi

Min. Tip Size: 0.033"

Min. output: 1.0 gallons/minute

Spray gun: remove all filters

Conventional spray: Min. 9.4 cfm @ 50 psi; Min. gun orifice 0.05"

- (e) Special Instructions: Substrate temperature must be at least 5°F above dew point; drying time is temperature, humidity and thickness dependent.

For more information, refer to NoFire Technologies product information: www.nofire.net

REPAIR PROCEDURES IF THE OVERCOAT WINDOW HAS BEEN EXCEEDED: N/A