
NAVSEA REVIEWED ASTM F-718

Crossfield Products Corp.
Terrazzo M Basecoat Resin Unit 1

0538 / 0539 / 0546

MIL-PRF-24613
MIL-D-3134

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: 01-13-2010 Rev: 009-05

I. GENERIC TYPE AND DESCRIPTION: Cosmetic Polymeric Deck Covering Non Grind Epoxy Terrazzo with Marble Aggregates
 Specification Number, Type, Class and/or Grade (If Applicable): MIL-D-3134, MIL-PRF-24613

II. MANUFACTURERS DATA:

- (a) MANUFACTURER: CROSSFIELD PRODUCTS CORP.
DEX-O-TEX MARINE PRODUCT LINE
- (b) PRODUCT DESIGNATION: 0538 - Terrazzo M Basecoat Resin Unit C
0539 - Terrazzo M Basecoat Resin Unit D
0546 - Terrazzo M Aggregates
- (c) COLOR(S): Assorted
- (d) USES: Mix with Terrazzo M aggregates to make-up Terrazzo M basecoat topping
- (e) TECHNICAL SERVICE REPRESENTATIVE
(Include Telephone Nos.): Steven Schroeder, (310) 886-9100 (www.dextextmarine.com)
- (f) NOT RECOMMENDED FOR: Sealing Polymeric Deck Coverings

III. PROPERTIES:

- (a) % VOLUME SOLIDS (ASTM D 2697): 100%
- (b) % WEIGHT SOLIDS (ASTM D 1475): 100%
- (c): FLASH POINT (ASTM TEST METHOD D 93 OR D 56 OR D 3278): >220°F
- (d): WEIGHT PER VOLUME: (FTMS 141a4184.1): N/A
- (e) % EDGE RETENTION (IF REQUIRED BY APPLICABLE SPECIFICATION): N/A
- (f): SHELF LIFE: One year minimum from date of manufacture.
- (g) VISCOSITY (STATE TEST METHOD TO BE USED (ASTM D4016-08): Mixed Components: >100,000 cps
- (h) PACKAGING: 0538 – (C Component 1 gallon can)
0539 – (D component 1 quart can)
0546 – (Terrazzo M Aggregates 56-lb. bag)
- (i): NUMBER OF COMPONENTS: Three (3)
- (j) GLOSS (ASTM D 523): N/A
- (k) STORAGE REQUIREMENTS: TEMP. MIN. 45°F MAX. 80°F
 ADDITIONAL PAINT STORAGE REQUIREMENTS: Dry area, not in direct sunlight.
- (l) VOLATILE ORGANIC COMPOUND (EPA TEST METHOD 24): 0.0 g/l
- (m) WEIGHT OF DRY FILM (WEIGHT/FT² AT 1 MIL THICKNESS): 0.01 lbs
- (n): SPECIAL PROPERTIES (e.g., STAIN RESISTANCE, LOW SOLAR ABSORBANCE, MOISTURE TOLERANCE): Moisture Absorption – 0.34%

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

- (a) INITIAL - Refer to NAVSEA Standard Item 009-32. Metal deck surfaces should be cleaned free of rust, loose scale, and dirt. Grease and oil should be removed with approved solvents and clean rags. The resulting surface should be clean and bright and protected against corrosion before Dex-O-Tex materials are applied. Terrazzo M may be applied to a cured Navy Formula 150 Primer, MIL-DTL-24441 or to Terrazzo M Underlayment installed in accordance with Dex-O-Tex Application Specification S-108M (Marine). Consult Crossfield Products Corp. when wood or other deck surfaces are involved.
- (b) TOUCH-UP - N/A
- (c) PROFILE (INCLUDE METHOD USED) – Install over Terrazzo M Bondcoat Primer
- (d) SPECIAL INSTRUCTIONS - N/A
- (e) PRIMER REQUIREMENTS (IF APPLICABLE): N/A
- (f) MAXIMUM ALLOWABLE CONDUCTIVITY (BRESLE PATCH METHOD): Refer to NAVSEA Standard Item 009-32
- (g) MAXIMUM DEGREE OF FLASH RUSTING ALLOWABLE (LIST COMMERCIAL STANDARD): N/A

SPECIAL SAFETY PRECAUTIONS:

Use good ventilation. Avoid breathing vapors. A fan to circulate fresh air may be needed.
Always obtain, read and observe Manufacturer's Material Safety Data Sheets before handling polymeric materials.

V. MIXING PROCEDURES:

(a) MIXING RATIOS BY WEIGHT - 4.94 : 1 (Clear Components) : a 56-lb. bag of aggregate
BY VOLUME - 4.77 : 1 (Clear Components) : a 56-lb. bag of aggregate

(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 - Use Acetone, isopropanol, or xylene

(d) THINNING REQUIREMENTS (RATIO) – NO THINNING ALLOWED

(e) POT LIFE - One hour at 70°F to 75°F (21°C to 24°C)

(f) SPECIAL INSTRUCTIONS – MIXING: Remove the cans containing Components C and D from the 6-gallon pail and pre-blend the colored marble aggregate using the Dex-O-Tex mixing blade mounted in a slow-speed ¾" (19 mm) drill.

VI. APPLICATION:

(a) ENVIRONMENTAL LIMITATIONS -

SUBSTRATE TEMPERATURE: MIN. 65°F MAX. 80°F

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

MAXIMUM PERCENT RELATIVE HUMIDITY: 85%

AMBIENT TEMPERATURE: MIN. 45°F MAX. 100°F

(b) FILM THICKNESS (SSPC-PA 2): Spread rate: 26 sq. ft at ¼"

TOTAL SYSTEM: DRY MIN. 125 mils DRY MAX. 250 mils

(c) DRY TIMES (ASTM D 1640) – 8 hours for light foot traffic
24 hours for regular traffic

1) DRY TO RECOAT – 14 Hrs @ 65°F
10 Hrs @ 75°F
8 Hrs @ 85°F

2) DRY TO HANDLE (I.E., TIME UNTIL PERSONNEL CAN WALK ON, INSPECT, TOUCH-UP COAT) – 14 Hrs @ 65°F
10 Hrs @ 75°F
8 Hrs @ 85°F

3) MAXIMUM RECOAT – 48 Hrs @ 65°F
44 Hrs @ 75°F
40 Hrs @ 85°F

4) CURE TO FULL SERVICE – 52 Hrs @ 65°F
48 Hrs @ 75°F
44 Hrs @ 85°F

(d) EQUIPMENT REQUIREMENTS (INCLUDE PREFERRED, SUITABLE, NOT SUITABLE REQUIREMENTS) - Dex-O-Tex mixing blade. 6-gallon (or larger) container

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

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

(e) SPECIAL INSTRUCTIONS – Do not over-trowel as trowel-burns, or a metallic staining from the trowel can result.

REPAIR PROCEDURES IF THE OVERCOAT WINDOW HAS BEEN EXCEEDED: Lightly sand; then solvent-wipe with isopropanol, xylene, or acetone.