

TECHNICAL DATA SHEET

CF-100

COLOR FLAKE SYSTEM

MIL-D-24613 Type I Class 2

Description

CF-100 Color Flake is a polymeric deck flooring system consisting of a pigmented epoxy base coat, a colored vinyl flake topping and a clear epoxy sealer.

CF-100 Color Flake is a thin-set system designed to coat over existing substrates that are sound and in good condition. Fire retardant in the cured state, it is intended for use in light traffic areas on interior metal decks in habitability, sanitary, and other wet spaces.

Surface Preparation

- Existing deck covering should be 100% removed to minimize additional weight. It is imperative that surfaces to which deck covering is to be applied be thoroughly cleaned of all foreign matter such as dirt, oil, grease, wax, paint, rust, scale, moisture, and other contamination before installation is begun.
- Preparation shall be by methods most feasible, such as grinding, sanding, or using needle point gun to expose bright metal. Concrete should be clean and sound prior to application. Consult surface preparation sheets available from American Safety Technologies for more detailed procedures.
- Remove all dust and other loose matter from the area. Clean deck free of remaining contaminants with an approved degreasing solvent.
- If exposed surface requires corrosion protection, apply MS-7C or MS-7CZ Primer.
- If concrete substrate requires upgrading, apply EU-100 Epoxy Underlayment or LU-100 Latex Underlayment before application of **CF-100** System,

Mixing and Application

This four step procedure consists of application of a base coat, application of a chip holding seal coat, broadcasting of chips and application of a final seal coat(s). Each unit sold separately.

All products must be used promptly once hardener (Part B) has been added to base (Part A) to avoid having material set up in the container.

STEP 1. Bond coat (if required)

BC-100 Bond Coat is not required when **CF-100** is being applied over a non-porous surface such as cured epoxy primer. However, BC-100 should be used to seal porous surfaces such as underlayment or concrete. An additional coat of **CF-100** may be substituted for BC-100 sealer if desired.

Additional Information Available: WWW.ITWAST.COM

Specifications

V.O.C.

- “0” lbs. per gal.
 (“0” grams/liter)

Pot Life

- 1 hour @ 70°F (21°C)

Dry Time

- 12 hours @ 70°F (21°C)

Cure Time

- 4 days @ 70°F (21°C)

Estimated Coverage

- **CF-100 Kit**
50 sq. ft. @ 30 mils DFT
- **Color Chips**
10 sq. ft. per lb. @ 80% coverage
- **Bond Coat**
80 sq. ft. per 1/2 gal. kit
- **Membrane**
125 sq. ft. per 5 gal. kit
- **Seal Coat - First Coat**
50 sq. ft. per 1/2 gal. kit during chip application
- **Seal Coat - Second Coat**
120 sq. ft. per 1/2 gal. kit

Weight

- 0.3 lbs. per sq. ft.

Flash Point

- N/A

- a. Select proper amount of BC-100 Bond Coat to match job requirements.
- b. When ready to apply, mix Part A and Part B together thoroughly for approximately three minutes. Be sure to scrape side and bottom of can to insure complete mixing. Apply with brush and/or short nap roller. Apply to all surfaces where underlayment is to be applied, including cove base and protrusions. Avoid puddles.
- c. Allow BC-100 to remain on deck no more than 30 minutes before applying Underlayment. Underlayment must be applied while Bond Coat is still tacky.

STEP 2. Underlayment (if required)

EU-100 Epoxy Underlayment may be used when deck requires change in contour or grade or to eliminate weld seams on sealed decks. BC-100 must be applied to the deck surface before application of EU-100.

Apply over tacky Bond Coat. Mix by pouring resin Part B into Part A and mix thoroughly, then pour into suitable mixer (6 gallon capacity). Add aggregates and mix until all particles are wet. Apply Underlayment over tacky Bond Coat with steel trowel. Trowel material to a smooth, compact finish. Avoid leaving trowel marks or porous areas on surface. Cure for 6 to 8 hours or until hard. Feather edges with trowel as required or, after Underlayment has cured, sand to a feather edge. Any imperfections on surface of Underlayment will show through, so trowel carefully.

STEP 3. MS-1600LV Flexible Membrane (optional)

To comply with Type II Class 2 flexibility requirements, apply

MS-1600LV Flexible Membrane by roller or notched trowel. Use 3/16" nap roller. Pour a "ribbon" of MS-1600 on the surface 2' to 4' long and 1' to 2' wide. Roll material in slow straight strokes pulling material towards you, spreading evenly. To spread with a trowel, use a 1/4" notched trowel or NAVSEA approved notched trowel. Pour material as indicated for rolling. Spread evenly by pushing trowel forward, then back toward the applicator at a 60° angle from the deck. Remove excess buildup from the trowel prior to making a second pass. Allow to cure 12-16 hours before applying **CF-100** Base Coat.

STEP 4. CF-100 Base Coat

CF-100 Base Coat can be applied directly over non-porous surfaces. Aporous or irregular surface may require two coats to fully cover the surface. Pour part B into Part A and mix thoroughly. Be sure to scrape sides and bottom of can to insure complete mixing. Apply **CF-100** Base Coat to cove base with brush. Base Coat is self leveling. Avoid sags and puddles. Apply to deck with short nap roller or with 1/8 inch V notch trowel.

Allow to cure 12 hours or until hard before proceeding, Avoid contamination of the Base Coat during cure.

STEP 5. Flaking and Seal Coat

- a. Wrap shoes in polyethylene, masking tape or other suitable covering to protect surface. Select proper amount of SC-100 Seal Coat to match job requirements. Pour part B into Part A and mix thoroughly. Be sure to scrape bottom and side of can to ensure complete mixing. Apply to cove base, corners and stanchions and other hard to reach areas with a brush. On flat

- areas apply with a short nap roller.
- b. Broadcast vinyl chips into wet Seal Coat to attain desired coverage and pattern (usually 80% coverage). Avoid stacking or excessive build-up of chips. Back roll chips to flatten and wet out all chips. chips may be moved around in wet sealer to achieve desired pattern. Allow SC-100 to cure 8 hours or until hard. Sand lightly to remove any high spots and protruding chips. Vacuum clean.
- c. Apply one or more additional coats of SC-100 to achieve desired surface profile. Allow at least 12 hours to cure at 70°F before opening the area to traffic.

Surface Maintenance

To maintain the performance of **CF-100**, we recommend periodic cleaning with an approved cleaner/degreaser in accordance with current military directives. Scrub surface with a long handled, fiber-bristled brush or floor machine. Rinse with clean water and dry.

Foreign matter such as chewing gum, should be gently removed with a scraper or putty knife and then cleaned as above.

Standard Colors

CHIPS:
White, Azure Blue, Rustic Gold, Ebony, Tile Red, Dark Green, Warm Brown, Light Brown, Moonstone Gray, and Dark Blue.

BASE:
Beige, Dark Blue, Azure Blue, White, Gray, Light Green, Tan and Olive Green.

Custom Colors are available and subject to minimum order requirements. Contact our Customer Service Department for more information at 1-800-631-7841

CAUTION

Read Material Safety Data Sheet before using this material.

Contains epoxy resins. Catalyst contains Amines. Use only with adequate cross ventilation. Keep away from extreme heat, sparks and open flame. Avoid prolonged breathing of vapors. For dizziness, seek fresh air. Toxic material. Avoid contact with skin. Use gloves, goggles and coveralls. In case of spillage on clothing, change clothing to prevent prolonged contact with skin. Wash contaminated clothing before reuse. Discard contaminated shoes. In case of accidental contact with skin, wash immediately with soap and water. In case of eye contact, flush thoroughly with plenty of water and call physician. If swallowed accidentally, do not induce vomiting. Seek medical attention immediately.

The user of this product is responsible for making its own evaluation and tests regarding the capabilities, safety, utility, suitability and application of the product, and assumes all risks and liabilities resulting from the use or application of the product, whether used alone or with other products. American Safety Technologies (herein referenced to as the COMPANY) warrants only that the product conforms to the specifications contained in product Technical Data Sheets published by the COMPANY, a copy of which is available to the user. If the product fails to conform to this warranty, the user shall return the product within 10 days of the purchase date with a note specifying the defect and the COMPANY will either replace the product or at its option, return the purchase price. EXCEPT AS EXPRESSLY PROVIDED IN THIS PARAGRAPH, THE COMPANY MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, NATURE OR DESCRIPTION, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND HEREBY DISCLAIMS THE SAME.

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