



## TECHNICAL DATA SHEET – CF-100

Revised:09/2022

### PRODUCT DESCRIPTION

**CF-100** Color Flake is a polymeric deck flooring system consisting of a pigmented epoxy base coat.

**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 must be 100% removed. 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 to SSPC-SP11 Standards. 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 area. Clean deck free of remaining contaminants with an approved degreasing solvent.
- If exposed surface requires corrosion protection, apply MS-7CZ Primer.
- If exposed surface requires upgrading, apply EU-100 or EU-100 Lightweight Epoxy Underlayment before application of **CF-100** System.

### 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.

**NOTE:** For additional application parameters and guide-lines please refer to ASTM F-718.

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: Grout Coat (if required)

GC – 100 Grout Coat should be used to seal porous surfaces such as underlayment or concrete. See GC-100 Technical Data Sheet for further information.

#### Step 2: Underlayment (if required)

EU-100 & EU-100 Lightweight Epoxy Underlayment's may be used when deck requires change in contour or grade or to eliminate weld seams on sealed decks. See EU-100 or EU-100 Lightweight Technical Data Sheet for further information.

#### Step 3: MS-1600 Flexible Membrane (optional)

To comply with Type II Class 2 flexibility requirements, apply MS-1600 Flexible Membrane by roller or notched trowel. See MS-1600 Technical Data Sheet and ASTM F718 for further information.

#### Step 4: CF-100 Base Coat

**CF-100** Base Coat can be applied directly over non-porous surfaces. A porous or irregular surface may require two coats to fully cover

# CF-100

## COLOR FLAKE SYSTEM

MIL-PRF-32584 TYPE IV, CLASS 1, COMP E /  
MIL-PRF-24613 TYPE I, II CLASS 2 GRADE B

the surface. Pour Part B into Part A and mix thoroughly by means of a mechanical mixing process to include usage of a jiffy blade, be sure to scrape sides and bottom of can to insure complete mixing. Apply to deck with short nap roller or with 1/8" V notched 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**

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.

Broadcast vinyl chips into wet Seal Coat to attain desired coverage and pattern (usually 80% coverage). Avoid stacking or excessive build-up of 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.

Apply one or more additional coats of SC-100 to achieve desired surface requirement. 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 military directives. Scrub surface with a long handled, fiber-bristled brush or floor machine. Rinse with clean water and dry.

**STANDARD COLORS**

BASE: Navy Blue, Dark Blue, Desert Beige, Gray. Custom Colors are available and subject to minimum order requirements.

**PRODUCT SPECIFICATIONS**

V.O.C	"0" lbs per gallon ("0" grams/ liter)
VOLUME SOLIDS - %	100 % by volume
POT LIFE	50 Min. @ 70°F (21°C)
DRY TIME	10 Hrs. @ 70°F (21°C)
CURE TIME	12 Hrs. @ 70°F (21°C)
ESTIMATE COVERAGE	50 sq. ft./kit, per 1 gal kit
WEIGHT	0.3 lbs./sq.ft.
FLASH POINT	230°F (>110°C)
PACKAGING	Part A: Gallon Part B: Quart
SHELF LIFE	2 Years

**CAUTION:** Read Safety Data Sheet before using this material. Use only with adequate cross ventilation. Keep away from extreme heat, sparks and open flame. Keep from freezing. Avoid prolonged breathing of vapors. For dizziness, seek fresh air. 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. 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. ITW Polymers Sealants North America, Inc. (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. In no event shall the COMPANY be liable to the user of this product, whether in contract or in tort or any other legal theory (including, without limitation, negligence), for damages which exceed the purchase price of the product, or for any indirect, incidental, consequential or similar damages, arising out of sale, use or application of the product, or for any claim made against the user by any other party, even if ITW Polymers Sealants North America, Inc. has been advised of the possibility of such claim.