



FreedomTuff® FreedomDeck™ vehicular deck is an integrative coating using an epoxy primer and a hand applied two component polyurethane that provides an elastomeric waterproof system with a theoretical dry film thickness of 59± mils (1498.6 microns). The system is used on concrete, metal and wood. Its quick set time allows for pedestrian and vehicular traffic in ten (10) Hours at 75° Fahrenheit (23.88° C) and 25% Relative Humidity.

ADVANTAGES

- + USGBC LEED, EQ Credit 4.2 AND 4.3: Low-emitting VOC Compliant Materials
- + 5 year or 5+ year leak free warranty preapproved in writing
- + Quick return to service
- + Withstands constant water immersion
- + No noxious odors

RECOMMENDED USES

- + Flooring
- + Loading Docks
- + Vehicular Decks/Parking Structures

NOTE: Read the information contained in the Product Information Bulletins prior to starting any project.

Read MSDS for health and safety information.

Products are for professional use only.

SURFACE PREPARATION

Surface preparation is the essential first stage treatment of a substrate before the application of any coating. The performance of a coating is significantly influenced by its ability to adhere properly to the substrate material. It is generally established that correct surface preparation is the most important factor affecting the total success of surface treatment. Surfaces will be clean, dry, and sound, the presence of even small amounts of surface contaminants, dust, efflorescence, laitance, salts, curing compounds, dirt, oil, form release agents, and other foreign matter can physically impair and prevent coating adhesion to the substrate.

Grinding is only permitted in areas that are inaccessible to shot blasting equipment.

Concrete should be cured for a minimum of 28 days prior to product application and have at least 3000 psi compressive and 220 psi tensile strength.

Primer is required on all substrates, except wood and on properly prepared steel (immersion requires a primer).

MIXING/APPLICATION PROCEDURES

Mix entire/full package containers, do not measure or mix partial containers of multi-component materials.

Do not dilute under any circumstances.

Insure that the substrate and outside air temperature is between 40° F (4.4° C) and 104° F (40° C) at least 6° (-14.44° C) above the dew point and rising.

STEP ONE: Concrete substrates should be shot blasted to obtain to a Concrete Surface Profile (CSP) 4-6.

Coverage rates for all products are approximate and vary based on type of substrate, porosity, roughness and size of broadcast aggregate. See Product Information Bulletin's.

STEP TWO: Select appropriate *FreedomTuff®* primer, see Product Information Bulletin's.

The substrate and may require more than one coat of Freedom® Chemical Corporation's *FreedomTuff®* primer. After selection of primer, mix and immediately pour primer onto the substrate at a rate of 100 to 300 square feet per gallon (9.29030m² to 27.8709m² per liter) in sufficient quantity to obtain a minimum theoretical dry film thickness of 5 mils (127 microns) per coat.

NOTE: If the *FreedomDeck™* system is over non-occupied space apply *FreedomTuff®* primer in sufficient quantity to obtain a minimum theoretical dry film thickness of 8 mils (203.2 microns).

Do not apply more primer to substrate than can be coated with *FreedomTuff® 4300* within eighteen (18) hours of application. If primer is not coated within the allotted time, sand and re-apply primer.

Allow primer to become tack free prior to application of *FreedomTuff® 4300*.

STEP THREE: (If FreedomDeck™ is applied over non-occupied space skip step three and proceed to step four). Apply 1¼ gallons (4.731 liters) of *FreedomTuff® 4300* per 100 square feet (9.290 m²) or in sufficient quantity to obtain a minimum theoretical 20 mils dry (508 microns); film thickness, immediately pour the *FreedomTuff® 4300* onto the horizontal surface and spread evenly over the entire surface using notched trowel, then back roll using a ¼" mohair roller with a phenolic resin core.

NOTE: Extended warranties require an additional coat at the turn radii, ramps and heavy traffic areas. Contact Freedom® Chemical Corporation for assistance.

STEP FOUR: Apply 1½ gallons (5.678 liters) of *FreedomTuff® 4300* at 100 square feet per gallon (9.290 m²) or in sufficient quantity to obtain a minimum theoretical 24 mils dry (609.59 microns); film thickness, immediately pour the *FreedomTuff® 4300* onto the horizontal surface and spread evenly over the entire surface using notched trowel or squeegee. Prior to its full set and starting to gel, broadcast to refusal a washed, dry, rounded, contamination free 20 x 40 nominal sieve size sand (0.0331"/.850 millimeters, .0165"/.425 millimeters) with 6.5 Moh's minimum hardness into the *FreedomTuff® 4300*, or as required to achieve a slip-resistant finish.

Excess aggregate must be completely removed.

Do not apply more *FreedomTuff® 4300* than can be top coated within twenty four (24) hours.

Allow Step four to dry prior to application of *FreedomTuff*® 4300.

STEP SIX TOP COAT: Apply 1 gallon (3.785 liters) of *FreedomTuff*® 4440 top coat at 100 square feet per gallon (9.290 m²) or in sufficient quantity to obtain a minimum theoretical of 16 mils (406.4 microns). Immediately pour the *FreedomTuff*® 4440 onto the horizontal surface and spread evenly over the entire using a flat edge squeegee and then back roll using a ¼" mohair roller with a phenolic resin core.

FreedomTuff® 4440 should be applied in a smooth pattern to establish uniform thickness and appearance.

Re-coating *FreedomTuff*® 4440 the surface must be properly prepared and primed prior to re-coating.

NOTE: *FreedomTuff*® 4440 grey has a tendency to darken or change to a greenish hue.

(OPTIONAL ALIPHATIC TOP COAT) *FreedomTuff*® 4200 is applied in two coats the first coat at a rate of 125 square feet per gallon (11.6129 m²), and the second coat at a rate of 275 square feet per gallon (25.5483m²), for a total theoretical dry film thickness of 10 mils (254 microns) to achieve a desired color. Coverage rates are approximate and vary based on type of substrate, porosity, roughness and size of broadcast aggregate. *FreedomTuff*® 4200 may require more than two coats.

Proceed with application of *FreedomTuff*® 4200 while air and substrate temperatures are between 40° F (4.4° C) and 104° F (40° C) and 25% Relative Humidity.

When *FreedomTuff*® 4200 is used as a top coat it must be applied within twenty four (24) hours of the application of any Freedom® Chemical Corporation's products.

DRY FILM THICKNESS

Freedom® Chemical Corporation's *FreedomDeck*™ over occupied space is a theoretical dry film thickness of 62 mils± (1574.8 microns), over non occupied space is a theoretical dry film thickness of 48 mils± (1219.2 microns) without sand using *FreedomTuff*® 4440 top coat.

SAND/AGGREGATE GUIDELINE

Apply sand to refusal for the *FreedomDeck*™ vehicular traffic deck system for a slip resistant finish.

STRIPING

Striping or application of any other finishing products should be applied within eighteen (18) hours of the after applying *FreedomTuff*® 4440 or *FreedomTuff*® 4200. It is recommended that an epoxy paint be used.

SPECIFICATION AND FIELD ASSISTANCE

Contact Freedom® Chemical Corporation for assistance.

Jobsite visits by Freedom® Chemical Corporation's employees or its independent agents are solely for the purpose of determining qualification for warranty.

DISPOSAL

Spilled material, unused contents and empty containers must be disposed of in accordance with local, state and federal regulations.

STORAGE/LIMITATIONS/PRODUCT INFORMATION

See Product Information Bulletins for substrate preparation, packaging, coverage rates, primer, mixing and application instructions for all products selected.

TESTING

Test the entire surface of the protective liner by spark testing at 100 volts per dry mil of lining thickness as per NACE Standard RPO 18B or ASTM D-1562 (steel) or ASTM D-4787 (concrete). Mark and repair.

Substrate adhesion test should be performed seven days after application.

WARNING

The *FreedomDeck*® *FreedomDeck*™ coatings contain Isocyanates.

Incredible Stuff, Exceptional Service, and Friendly People™

Read all the information in this product information bulletin, and material safety data sheet (MSDS) before applying any material. The information contained herein is for purposes of identifying the product and does not constitute a warranty that the product will conform to this description. Product specifications and performance will vary depending on application methodologies, raw materials and other factors. Guidelines, recommendations, statements, and information contained herein is based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy themselves, by their own information and tests, to determine suitability of the product for their own intended use, application and job situation and the user assumes all risk and liability resulting from their own use of the product. We do not suggest or guarantee that any hazards listed herein are the only ones that may exist. Neither seller nor manufacturer shall be liable to the buyer or any third party for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether verbal or in writing, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of Freedom® Chemical Corporation. Typical properties and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Performance results were obtained in a controlled environment and Freedom® Chemical Corporation makes no claim that these tests or any other tests accurately represent all environments. Products manufactured by Freedom® Chemical Corporation are free of defects for a period of one (1) year, liability and buyer's remedy under this limited warranty shall not exceed the purchase price of the materials in question. † Freedom® Chemical and FreedomTuff® are trademarks registered in the US Patent and Trademark Office. † The marks of Freedom® Chemical Corporation, its divisions, slogans, emblems, other marks appearing in this document are the trademarks and/or service marks of Freedom® Chemical Corporation, its subsidiaries, affiliates or licensors Copyright © March 2015 Freedom® Chemical Corporation. All Rights Reserved. All published information is subject to change without notice.