

# DefenderDeck™ LD

## SYSTEM DESCRIPTION

**DefenderDeck™ LD** is a hand-applied, multi-layer elastomeric waterproofing system designed for vehicular and pedestrian traffic. On rough substrates with a CSP >6, filler can be added to increase thixotropy of system to fill peaks and valleys, improving substrate smoothness.

## APPLICATIONS

- Vehicular Decks
- Pedestrian & Roof Decks
- Mechanical Rooms
- Balconies

## BENEFITS

-  Easy-to-use hand applied system
-  No noxious odors or VOCs
-  Slip and abrasion-resistant surface
-  Can fill peaks and valleys on rough concrete substrates >CSP6

## COLORS

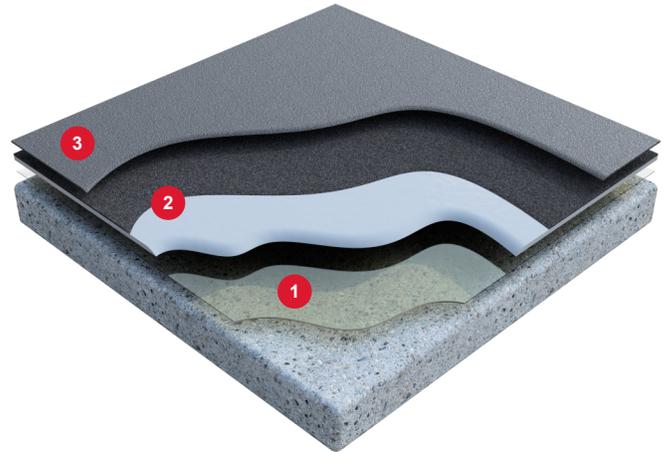
Standard color of base coat is Light Grey (Color Code "115").

Standard color of intermediate coat and topcoat is Dark Grey (Color Code "104")

Additional colors are available upon request.

**REQUEST A DRAW DOWN SAMPLE FOR EXACT COLOR**

## SYSTEM COMPONENTS



1. **Primer Coat:** Varies based on substrate
2. **Base Coat:** FT-4300 w/Aggregate Broadcast
3. **Topcoat:** FT-4320

Dark Grey 104	Light Grey 115	Black 218
------------------	-------------------	--------------

*Note: FreedomTuff aromatic coatings are UV stable, but are known to darken or change color when exposed to UV and/or sunlight. This discoloration has shown to have little to no effect on the integrity of the aromatic polyureas.*

## INSTALLATION OVERVIEW

Installation of any Freedom Chemical Corporation's products should be performed by an applicator with documented experience and a quality assurance program.

Refer to the relevant documentation for complete mixing, handling, and installation information.

### Project Conditions

Install system when air and substrate temperature meet the requirements of the contract documents or is between 40°F (4.4°C) and 104°F (40°C), whichever is more stringent. Do not install system if relative humidity is above 85%. Refer to Installation Procedure document for information regarding air/substrate temperature and dew point limitations.

### Surface Preparation

Concrete Surfaces: Provide clean, dry, and sound concrete substrate. Repair spalls and other defects using approved patching materials. Prepare concrete surfaces in accordance with SSPC-SP13/NACE No. 6 and achieve a Concrete Surface Profile of at least 3 measured using ICRI CSP chips.

Metal Surfaces: Provide clean, dry, and sound metal substrate. Prepare metal surfaces in accordance with SSPC-SP10/NACE No. 2 and achieve a 4-6 mil blast profile measured using a Surface Profile Gauge.

### Application of Products

Step 1 (Primer Coat): Mix and immediately pour primer onto substrate in accordance with the contract documents or the Freedom Chemical Corporation Installation Procedure document.

- Application Rate for Concrete: 100-200 ft<sup>2</sup> per gallon
- Application Rate for Metal: 600-800 ft<sup>2</sup> per gallon.

Allow primer to cure until tack-free prior to performing subsequent steps.

Step 2 (Base Coat): Mix and immediately pour FT-4300 onto primed substrate in accordance with the contract documents or the Freedom Chemical Corporation Installation Procedure document.

### Step 2 (Base Coat) cont:

- Application Rate (Horizontal Substrates):
  - Liquid: 53 ft<sup>2</sup> per gallon
  - Filler (if required): 2.5 ft<sup>2</sup> per pound

*Note: Turn radii, ramps, and other high traffic areas require an additional coat of FT-4300.*

Spread material using a notched trowel or squeegee, then back roll using a 1/4-inch nap roller.

Prior to the FT-4300 achieving full set, broadcast a 16x30 nominal sieve size sand into the FT-4300 to achieve a slip-resistant finish. Refer to Installation Procedure document for additional information regarding aggregate requirements.

Allow FT-4300 to cure until tack-free prior to performing subsequent steps.

Step 3 (Topcoat): Mix and immediately pour FT-4320 onto substrate in accordance with the contract documents or the Freedom Chemical Corporation Installation Procedure document.

- Application Rate: 135 ft<sup>2</sup> per gallon

Spread material using a flat squeegee, then back roll using a 1/4-inch nap roller.

### Return to Service Times

<b>Open to Pedestrian Traffic</b>	12 hours
<b>Open to Vehicular Traffic</b>	24 hours