

GUARDIAN-BD

SYSTEM DESCRIPTION

GUARDIAN-BD is a spray-applied, multi-layer elastomeric waterproofing system designed for vehicular bridge deck waterproofing.

APPLICATIONS

- Highway Bridge Decks

BENEFITS



Rapid return to service



No noxious odors or VOCs



Highly strength and durability

COLORS

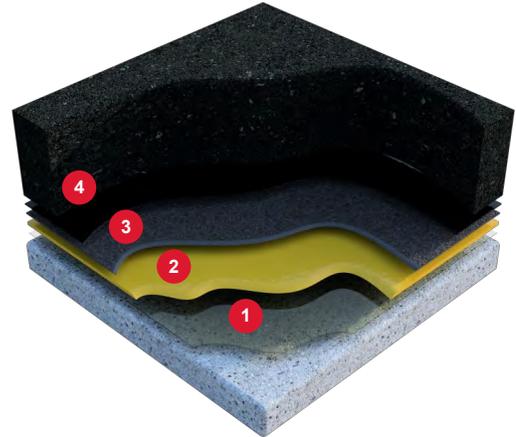
Standard color of FT-2202 is Yellow (Color Code “680”).

Standard color of FT-2216-SS is Dark Grey (Color Code “104”)

REQUEST A DRAW DOWN SAMPLE FOR EXACT COLOR

Note: FreedomTuff aromatic polyureas 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.

SYSTEM COMPONENTS



1. **Primer:** Varies based on substrate
2. **Waterproofing Layer:** FT-2202
3. **Aggregate Surfacing Layer:** FT- 2216-SS
4. **Tack Coat & Asphalt (by others)**

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 above 32°F (0°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 ft² per gallon
- Application Rate for Metal*: 600-800 ft² per gallon.

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

***Note:** *Primer not required on properly prepared metal substrates unless corrosion-inhibiting primer required by project specifications.*

Step 2 (FT-2202 Waterproofing Layer): Spray FT-2202 onto primed substrate in accordance with the contract documents or the Freedom Chemical Corporation Installation Procedure document.

- Application Rate: 20 ft² per gallon

Allow FT-2202 to cure until tack-free prior to performing subsequent steps.

Step 3 (FT-2216-SS Aggregate Surfacing Layer): Spray FT-2216-SS onto substrate in accordance with the contract documents or the Freedom Chemical Corporation Installation Procedure document.

- Application Rate: 40 to 53 ft² per gallon

Immediately broadcast aggregate into membrane while still in liquid state at the application rate specified in the contract documents, or at 0.33 to 0.50 pounds per ft², whichever is more stringent.

Step 4 (Tack Coat and Asphalt by others): Prior to application of tack coat, remove excess, loose aggregate. Install tack coat and asphalt in accordance with the contract documents and/or manufacturer's recommendations.

Return to Service Times

Open to Pedestrian Traffic	30 minutes
Open to Paving Operations	60 minutes