

SYSTEM GUIDE

Guardian-DOS



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Guardian-DOS is a spray and hand-applied, high performance, decorative waterproofing system designed for use in military and correctional facilities.

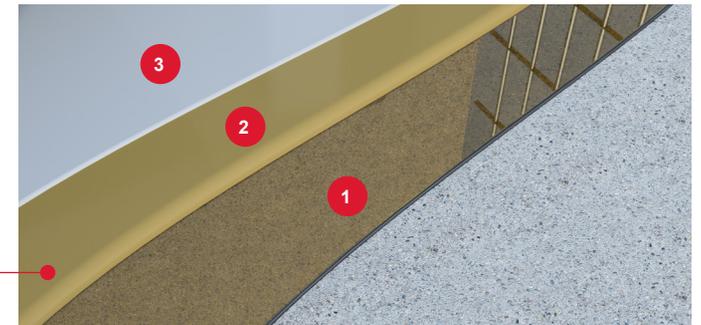
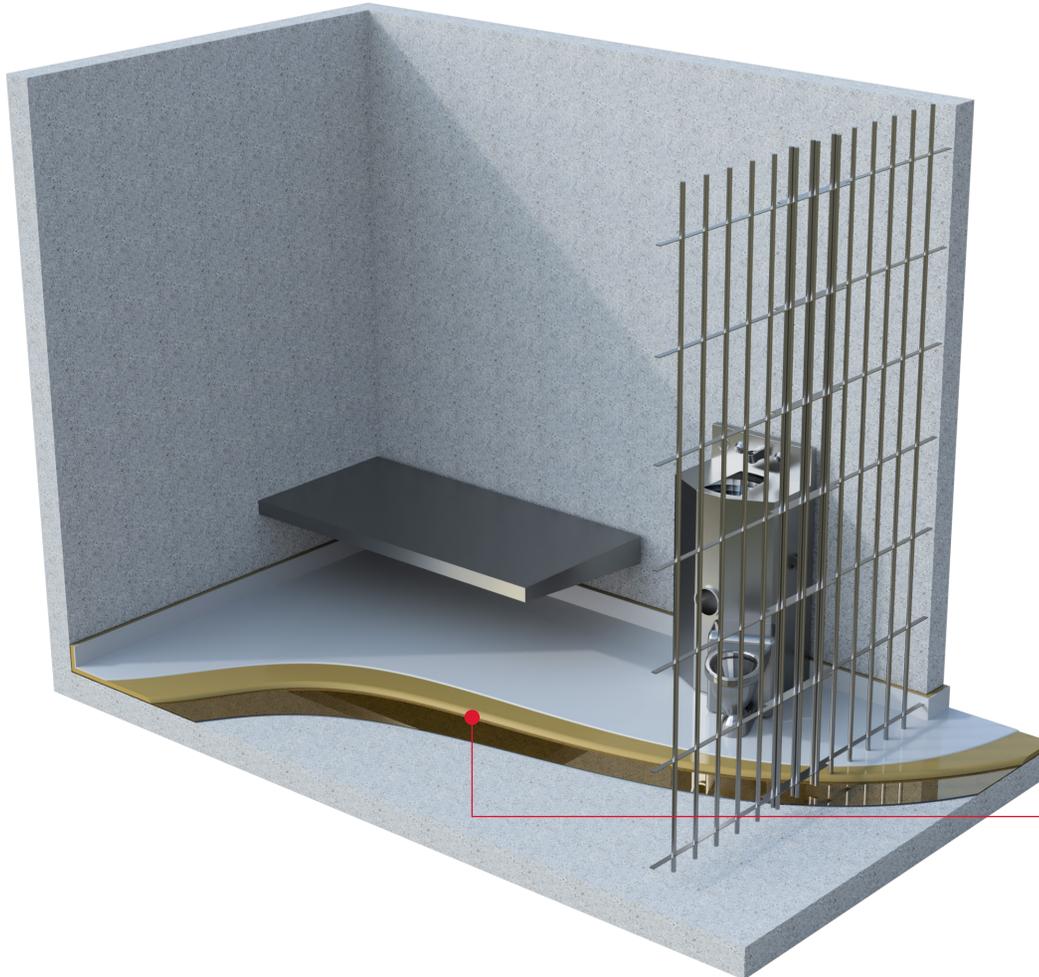
APPLICATIONS

- Flooring
- Shower Walls and Floors

BENEFITS

- No noxious odors or VOCs
- Withstands constant water immersion
- USGBC LEED, EQ Credit 4.2 and 4.3: Low-emitting VOC Compliant Materials

SYSTEM COMPONENTS



1. **Primer Coat:** Varies based on substrate
2. **Base Coat:** FT-2190
3. **Top Coat:** FT-4000

COLORS

Standard color of base coat Tan (Color Code “750”).
Standard color of top coat is Light Grey (Color Code “7001”).

Additional colors are available upon request.

REQUEST A DRAW DOWN SAMPLE FOR EXACT COLOR

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 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: Apply polyurea using suitable spray equipment onto primed substrate in accordance with the contract documents or Freedom Chemical Corporation Installation Procedure document, whichever, is more stringent.

- Application Rate: 20 ft² per gallon (~80 mils)

Minimum Spray Equipment Requirements for Step 2:

- 1:1 ratio pump
- Capable of heating material to >160°F

- 2 gallons per minute output minimum
- Static pressure 2,800 psi minimum
- Spraying pressure 2,500 psi minimum

Step 3: Mix and immediately pour FT-4000 onto previously installed polyurea in accordance with the contract documents or Freedom Chemical Corporation Installation Procedure document, whichever, is more stringent.

- Application Rate: 100 ft² per gallon (~16 mils)

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

Return to Service Times

Open to Pedestrian Traffic	12 hours
Open to Vehicular Traffic	24 hours