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innovative chemistry for substrate solutions
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CoverShield U100

High Performance, Stain and Wear Resistant Sealer for Concrete and Terrazzo

Product Description
CoverShield U100 is a hard wearing, chemical and stain resistant, two component, water-based sealer for concrete, cement terrazzo and other hard surfaces. The product is non yellowing and is resistant to abrasion, weathering and a wide range of chemicals. U100 is odorless and can be applied direct to steel –troweled, burnished, polished or decorative concrete, surfaces

Features
- Stain and Chemical Resistant
- Excellent Wear and Scratch Resistance
- Highly Oil and Grease Repellent
- Food Contact Safe
- Non-Peeling
- Non-Yellowing UV stable
- Odorless, Easy to Apply and Recoat
- Water Resistant
- High Coverage

Main Uses
- Concrete Floors, inside or outside
- Stained and Decorative Concrete
- Terrazzo Susceptible to Staining or Discoloration
- Polished Concrete
- Concrete Counter Tops
- Porous Stone and Tile
- Restaurants
- Malls and Supermarkets
- Hospital Floors
- Warehouse Floors

Color
Dries water clear, gloss or matte.

Theoretical Coverage
Approximately 800ft²/ gallon (19.5m²/liter)
The actual cover will vary depending on the density and porosity of the substrate.

Packaging
1.0 gal (3.8 L) and 4.0 gal (15.2 L) Kit.

Shelf Life
12 months when stored at 77°F (25°C) or less in a dry and shaded area. Protect from freezing.

Chemical and Stain Resistance
Test Method ASTM D1308 (24 hours)

Reagent	Rating
White Vinegar	No effect
Red Wine	No effect
Coffee	No effect
Mustard	No effect
Ketchup	No effect
Isopropyl alcohol	No effect
Cooking Oil	No effect
Mineral Spirits	No effect
Bleach	No effect
Acetic acid	No effect
Lemon Juice	No effect
Blood	No effect
Urine	No effect

Test Data

Abrasion Resistance ASTM D4060 CS-17 1000 cycles	25 mg loss
VOC ASTM D3960	<50 g/L
Pendulum Hardness ASTM D4366	7 Day-Matte 162 sec
Tensile Strength ASTM D638	4400 psi
Artificial weathering ASTM D4587	None
Tear Strength ASTM D624	150-300 pli
Wet DCOF ANSI B101.3	0.41 Acceptable Slip Resistance
Wet DCOF ANSI B101.3 with CoverGrip Ultrafine	0.70 High Slip Resistance

Application Properties

Application temperature	50 to 100°F (10 to 38°C)
Service temperature	20 to 120°F (-6.6 to 40°C)
Drying time	2 to 3 hours at 75°F (24°C)
Light foot traffic	3 to 4 hours at 75°F (24°C)
Heavy foot traffic	6 to 8 hours at 75°F (24°C)
Vehicular Traffic	24 hours at 75°F (24°C)
Recoat window	48 hours at 75°F (24°C)

CoverShield U100 is rated FDA 21 CFR 175.300 and acceptable for use in floors and surfaces subject to USDA and FDA inspections and regulations.

CoverShield U100

Surface Preparation: All surfaces to be coated must be clean and free of moisture, efflorescence, dirt, grease, oil, wax, curing agents and any other foreign matter. Strip wax using FloorStrip HP. The concrete surface being coated must be a minimum 7 days cured, structurally sound (200psi or greater according to ASTM D4541), clean and dry. It must have low moisture-vapor transmission (6 lbs/1,000 ft ²/24 h (or 15 g/m²/24 h) or lower).

For best results, prepare the surface using **Surface PrepWork** to safely micro-etch the concrete Depending on build-up to be removed, PrepWork can be diluted with up to 5 parts water.

Always prewet the surface to be cleaned. Apply PrepWork thoroughly to the area to be cleaned. Use a low-pressure garden sprayer , mop or masonry brush. Let stand for approximately 5 minutes. If surface starts to dry out mist with water to keep surface wet for minimum 5 minutes. Rinse thoroughly. Water should be easily absorbed into the concrete. Repeat if necessary.

Mixing: Ratio 7A:1B. Stir **Part A** to make sure all contents evenly dispersed. Pour Part A into a mixing container and add **Part B** while mixing using a mixing drill and paddle. Mix slowly for 1 minute. **USE MATERIAL WITHIN 2 HOURS ONCE MIXED.**

Priming: For very dense surfaces such as steel troweled concrete or polished concrete, prime fist with a diluted coat of CoverShield U100. Dilute U100 mixture with clean water ratio 1: 1. Apply a thin coat with a pump up sprayer at 800 to 1000 ft^2 per gallon. Allow primer coat to dry tack free and wait 60 additional minutes.

Application: CoverShield U100 sealer may be applied via a pump sprayer with a conical tip that sprays at .05 to .15 gpm at 40 psi. and then spread out using a T-Bar applicator, or flat micro-fiber mop head. For best results use two people – one spraying and one spreading.

Lightly wet a clean microfiber pad with U100, leaving the pad damp. Spray-apply U100 and spread with the damp microfiber pad. Maintain a thin, even coating and wet edge. Stop spreading once drying begins.

Periodically remix any sealer that has sat for more than 10 mins to keep all ingredients in suspension.

Apply 1st coat at a rate of 800ft^2 per gallon. DO NOT OVER-APPLY. This product should be applied thinly and evenly. Allow the 1st coat to dry tack free and wait 60 additional minutes.

Apply 2nd coat a rate of 800ft^2 per gallon and allow to dry for 3 hours before opening up to light traffic.

Two coats are usually sufficient. Three coats on textured concrete may help with maximum water resistance

Drying: Light foot traffic is possible after approximately 3 hours and heavy foot traffic is possible after 6 hours depending on sealer thickness, temperature and humidity. Allow 24 hours before vehicular traffic. **Note the colder the temperature and lower the humidity the longer it will take for the U100 to dry.**

To increase gloss, wait at least 24 hours after the final coat is applied, then use a high-speed burnisher fitted with a burnishing pad. Burnish at a fast-walking pace.

Note U100 gains it full stain repellency properties in 3 days

Recoating: U100 should be recoated within the first 48 hours of previous application. SURFACE MUST BE CLEAN. After 48 hours, sand with 400 grit sandpaper or twister pad Clean with GlossClean neutral and allow substrate to dry. Apply CoverShield U100 within 1 hour.

Clean Up: Clean all equipment and any splatters or spills with water before material dries. Once cured, the product will require mechanical removal or use of PowerStrip.

Limitations: Do not apply if surface temperature is below 50°F (10°C), above 100°F (38°C) or within 5°F (3°C) of the dew point.
Do not apply thicker than recommended.
Do not apply in rain or wet conditions,
Avoid skin contact.
Do not add paint thinners, solvents, or admixtures.

Datasheet Validity: Please check the datasheet section on www.covertecproducts.com to ensure you have the latest version of the datasheet.

Health and Safety: Please refer to the Safety Data Sheet (SDS) prior to the use of this product. The SDS can be obtained via www.covertecproducts.com.

Limited Warranty: CoverTec Products LLC warrants that this product complies with the properties shown on its current datasheet. In the unlikely event that the product supplied is proved not to comply with these properties, then we will replace the non-compliant product or refund the purchase price. Any suspected defect must be reported to CoverTec in writing within five working days of being detected. CoverTec Products LLC. **makes no warranty as to the merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied.** CoverTec Products LLC shall not be liable for damages of any sort including remote or consequential damages, down time, or delay.