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innovative chemistry for substrate solutions
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CoverShield U140

High Performance Oil and Stain Resistant Sealer for Concrete

Product Description
CoverShield U140 is a tough, industrial grade, water based clear gloss or matte finish polyurethane sealer. U140 was developed specifically for sealing concrete floors in Warehouse, Workshops and Industrial type environments. U140 is non yellowing and highly resistant to oil, staining and a wide range of chemicals. The product is easy to maintain and has excellent scratch and abrasion resistance. U140 is odorless and can be applied interior or exterior concrete.

Features
- Oil and chemical resistant
- Scratch and abrasion resistant
- Odorless
- UV stable, interior and exterior use
- Easy to apply
- Holds up to heavy forklift traffic
- Resists Hot Tire Pick Up
- Excellent for steel troweled, densified, polished concrete

Main Uses
- Industrial floors /Workshops
- Parking decks
- Densified /Trowel Finished Concrete
- Gas Station and Diesel fuel pads
- Secondary containment
- Drive Through concrete
- Driveways
- Warehouse floors

Color
Clear Gloss and Matte.

Coverage
Approximately 800ft^2/gallon (19.6 m^2/liter) per coat 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). **Protect from freezing and High Temperatures.**

Chemical Resistance
Test Method ASTM D1308 (Covered Spot Test 24 hrs)

Reagent	Rating
Hydrochloric Acid 10%	No effect
Sodium Hydroxide 50%	No effect
Skydrol	No effect
Brake Fluid	No effect
Gasoline	No effect
Diesel Fuel	No effect
Isopropyl alcohol	No effect
Bleach 10%	No effect
Sulfuric Acid	No effect
White Vinegar	No effect
Lemon Juice	No effect
Acetic Acid	No effect

Contact CoverTec for specific advice on chemicals not shown above.

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 95°F (10 to 35°C)
Service temperature	10 to 150°F (-12 to 65°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)

Surface Preparation: All surfaces to be coated must be clean and free of moisture, efflorescence, dirt, grease, oil, chalk, mildew and any other foreign matter.

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 are 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 U140. Dilute U140 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 U140 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 U140, leaving the pad damp. Spray-apply U140 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

U140 should be applied between 50 and 95°F. Note the colder the temperature and lower the humidity the longer it will take for the U140 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 800, 1,500 and 3,000 grit burnishing pads. Start with 800 grit and burnish at a fast walking pace.

Curing: Light foot traffic is possible after 3 hours and heavy foot traffic is possible after 6 to 8 hours. Allow 24hrs before vehicular traffic depending on application thickness, temperature and relative humidity in the room.

Recoating : Overcoats with CoverShield U140 within the first 48 hours of previous application. After 48 hours, sand or scrub entire surface using 400 grit sandscreen or diamond pad. Clean with GlossClean and allow substrate to dry. Apply U140 within 1 hour.

Clean Up: Clean all equipment and any splatters or spills with water before material dries. Once cured, the product will require sanding or the 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 at thicknesses above 3 wet mils (0.075mm) per coat
Do not apply in rain or wet conditions,
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 at 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.