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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
- No Hot Tire Pick Up
- Excellent for steel troweled, densified, polished concrete

### Main Uses

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

### Color

Clear Gloss and Matte. Color available on request.

### Coverage

Approximately 800ft<sup>2</sup>/gallon (19.6 m<sup>2</sup>/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) or less in a dry and shaded area. Protect from freezing.

### 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
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	1 Day-Matte 38 sec
Pendulum Hardness ASTM D4366	5 Day-Matte 154 sec
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

### Application Properties

Application temperature	50 to 100°F (10 to 38°C)
Service temperature	40 to 120°F (4.4 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)

**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.

Thoroughly clean the surface with a black scrubbing pad (light abrasion) and **CoverClean HC** cleaner. Allow surface to dry.

**Concrete Densifier:** For weak or porous concrete, use **SurfaceFinish CD80** concrete hardener and densifier.

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<sup>2</sup>/24 h (or 15 g/m<sup>2</sup>/24 h) or lower). ) For best results, prepare the surface by sanding the floor with a 60-200 grit sanding screen or diamond abrasive pad. Remove all residue before sealing.

**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 first 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<sup>2</sup> 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.

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

Apply 2<sup>nd</sup> coat a rate of 800ft<sup>2</sup> per gallon and allow to dry for 3 hours before opening up to light traffic. Two coats are usually sufficient, but applicator must determine the specific need. 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, the temperature and the relative humidity in the room.

**Recoating :** Overcoats with CoverShield U140 need to be applied within the first 48 hours of previous application. THE SUBSTRATE MUST BE CLEAN. After 48 hours, mechanically abrade the entire surface using auto scrubber fitted with a green pad. Clean with GlossClean neutral cleaner and allow substrate to dry. Apply CoverShield 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 mechanical removal 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](http://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](http://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.