



CoverTec

innovative chemistry for substrate solutions

(Specialty Coatings)

CoverShield OilStop System for Concrete

CoverShield OilStop System is a proven process to clean and prime oil contaminated concrete and stop the debonding of coatings and floor toppings. The OilStop system is extremely effective against oil “bleedback” in contaminated concrete. The system comprises of a heavy duty non hazardous microbial cleaner for petroleum based hydrocarbons and a chemically enhanced penetrating epoxy primer. The OilStop system results in an extremely high density, high solids oil and chemical barrier coat that penetrates deeply into the concrete preventing the migration of oil “bleedback” through concrete slabs and walls. Top coats and floors and toppings can all be applied the next day.



CoverShield OilStop System Applicable Products

CoverClean HC (microbial cleaner) is penetrating bacterial solution that uses micro-organisms to digest and clean petroleum based oil, and asphalt residue, from concrete, masonry and metal surfaces. CoverClean HC is a heavy duty cleaner used to remove hydrocarbons from oil contaminated concrete prior to coating. CoverClean HC is environmentally safe.

CoverShield Primer OS (penetrating) Is a two component chemically enhanced epoxy barrier against oil “bleed back” from oil contaminated concrete. The product is applied in a single application by squeegee brush and roller to previously cleaned surface. The product can receive a topcoat after 4 to 12 hours drying time at 77deg F.

CoverShield Primer HS is a two component, high solids epoxy primer for use with CoverTec coatings and sealants. It can be used neat or with a sand broadcast.

CoverBond PF160 A high build thixotropic epoxy resin mortar used for filling pock marks in concrete and surface imperfections in steel, prior to the application of epoxy, polyurethane and polyurea coatings.

CoverFlex J45 HD is a tough, durable, 100% solids, two component hybrid polymer joint sealant. This heavy duty self leveling sealant exhibits fast cure and excellent adhesion to a variety of substrates. CoverFlex J45 HD is developed to be used in horizontal movement and non movement joints subject to vehicular traffic both interior and exterior.

Where To Use

- Parking Decks
- Ramps
- Warehouse floors
- Workshops
- Auto Body shop floors
- Factory floors
- Turning Circles
- Truck Stops

Substrate Preparation

The substrate must be structurally sound. Loose or unsound concrete should be removed and made good. The top surface must be entirely free of oil, grease, paint, corrosion deposits, dust, laitance or other surface deposits. Any cracks or pock marks should be filled with CoverBond PF160 before application of Primer OS.

Substrate Cleaning

Soak the area to be cleaned with water prior to application of CoverClean HC solution.

Apply CoverClean HC to the contaminated area by either a pump up spray or brush at a rate of 200 to 250ft² per gallon (4.9 to 6.1 m²/L). For heavy duty cleaning apply at a rate of 150 to 200ft² per gallon (3.7 to 4.9 m²/L). The affected area must be agitated with a stiff brush. This can be manual or with a power scrubber depending on the size of the area being cleaned. The solution temperature must not be allowed to rise above 120°F(48.9°C) or to completely dry out. Water must be present at all times, since this is the source of oxygen for the microbes.

Allow the CoverClean to sit for a minimum of 3 hours.

Keep wet during this time and agitate one more time, 20 minutes before rinse off. If the product cannot be rinsed to a drain, then use an auto scrubber or similar to wet vac up the liquid.

Allow substrate to dry before applying Primer OS.

Tools Needed

- | | |
|-----------------------|--------------------|
| • Flat Blade Squeegee | • 2 gal Bucket for |
| • Notched Squeegee | Quartz Aggregate |
| • Shed Free Short Nap | • Spiked Shoes |
| Rollers and Frames | • Masking Tape |
| • Mixing/Measure | • Plastic |
| Containers | • Wet/Dry Vac |
| • Mixing Drill with | • Scraper |
| Mixing Blade | |

Mixing Area & Mixing

Select a convenient mix area and protect the surface from spillage by covering with a layer of cardboard and/or sheet of plastic. Make ready all necessary tools, mix and measure containers, etc. Condition the material to a minimum temperature of 60°F (10°C). **DO NOT MIX PRIMER UNTIL READY FOR IMMEDIATE USE.** Mix Ratio 1:1 by volume.

Add 1 Part B in to 1 Part A and mix using a slow speed drill and paddle for 4 minutes until both components have fully dispersed and are uniform in color. Be sure to rotate the mixer throughout the pail.

Avoid whipping air into the material by mixing at too high a speed or too vigorously. Make sure to scrape any unmixed material from the sides of the mixing container.

Application of Primer OS

A. Make certain that the floor temperature and air temperature is between 60 and 90°F.

B. Primer OS when mixed should immediately be poured out onto the floor in ribbons

C. Using spiked shoes to evenly spread with a flat or V-notched squeegee and back roll with a 3/8" solvent resistant non shedding roller short nap roller at a MINIMUM coverage rate of 200 ft²/gal (8 mil thickness when wet).

D. Too thin of an application may result in product failure or oil bleed through.

Top coat or recoat

Primer OS can be top coated with epoxy and/or urethane systems within the recoat window (4 to 12 hours at 77°F).

We recommend 1 coat of Primer HS and 2 coats of CoverShield U270 (see separate data sheets and color chart for color options). If different topcoats are desired, contact CoverTec for application details before proceeding. Proposed intermediate and topcoat selections should be evaluated for adhesion and compatibility. A representative sample patch should be applied for this purpose.

Cement Based Toppings

For cement based toppings, underlayment, thin-set tile mortar, polyurea, etc, it is necessary to double prime and then broadcast sand. Recoat Primer OS with Primer HS within the recoat window (4 to 12 hours at 77°F) then immediately broadcast #50 - #70 sand directly over the Primer HS while wet. If the subsequent cement coating requires a primer over concrete, it should also be used over the sanded surface.

Limitations

Use for petroleum based oil contamination only
Protect from U.V.

Do not apply less than 8 mils (0.2mm thick)

Do not mix the primer with Cab-O-Sil

Will not accommodate movement cracks.

Do not use on concrete contaminated with food based grease

Do not apply on temp below 60°F (16°C).

Minimum material temperature should be 60°F (16°C).