CoverTec
innovative chemistry for substrate solutions

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CoverSeal DS160

High strength deep sealer and densifier for concrete

Product Description
CoverSeal DS160 is a unique alkali activated penetrating sealer that reacts with the calcium hydroxide deep inside concrete to form a dense silicate complex that prevents the passage of water vapor, moisture and efflorescence through floor slabs and walls.

Features

- Works internally to seal the concrete
- Low viscosity solution for deeper seal
- Reduces Moisture Vapor Emission (MVE)
- Holds back efflorescence and salt migration
- Works as a primer for sealers and coatings
- Boosts repellency of penetrating sealers
- Retards pitting, dusting, and rutting.
- Cures new concrete uniformly and resists hairline cracking and spot drying.
- Densifies and hardens all concrete and masonry
- Increased resistance to freeze-thaw and salt attack.
- Does not alter appearance or texture of the treated surface.
- Can be painted over, and will accept concrete topping or adhesives for floor tile, etc.

Main Use

- Water and Vapor Barrier
- Freeze/Thaw Protection
- Excellent Primer for Stain Resistant Sealers
- Block efflorescence/ salt migration
- Deep Seal and Densify weak or porous concrete
- Above, below or on grade as a slab hardener, dust proofer
- Seal Stucco before painting
- Concrete treatment before coating—rubberized paint, adhesives, polyurea, epoxy, surfaces sealers

Packaging
1 gallon (3.79L) and 5 gallons (18.9L)

Shelf Life
24 months when stored in cool dry conditions in original unopened drums.

Coverage
200-300 ft^2 per gallon (4.9 - 7.3 m^2 per liter) depending on porosity of the concrete.

Dry time
Dry to touch 1-2 hours; traffic 12-24 hours

Typical Properties

Property	Typical Results
pH at 77°F	**11.5-12.5**
Surface Breathable	Yes
Specific gravity	1.15 @20deg C
VOC g/l	0.0
Flash Point	None
Solubility in Water	Yes
Appearance	Clear Liquid.

Installation Guidelines

New Concrete
CoverSeal DS160 can be applied to green concrete when the concrete is strong enough to be walked on without leaving a mark, typical 2 to 3 days.

Existing Concrete
The surface must be clean and porous enough to allow penetration into the substrate.
Surfaces should be clean and free of surface laitance, dust, dirt, debris, mildew, oil, grease, previous sealers, curing agents, paint or other surface coatings, and other contaminants. If acid or other cleaning compound is used for cleaning or etching the surface, neutralize the surface completely before application of DS160.

Test Area
Before application to the whole surface, test a small area to verify absorption, application rates and desired results especially on dense surfaces.

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Application
The concrete must be dry prior to treatment.
Stir DS160 thoroughly before use. **Substrate and ambient temperature should not be below 40°F or above 95°F** during the application or drying period. **Apply an even layer of product with a low-pressure sprayer, lamb's wool applicator, roller, or brush**.

Work in small, manageable areas to ensure product is applied uniformly and does not dry out on the surface. **Allow DS160 to fully absorb into the surface for 10 minutes without puddles.**

Any product not absorbed after 10 minutes should be spread using a soft broom, roller, or lamb's wool applicator. Over application may leave a white residue on the surface. This residue can be cleaned off when dry by scrubbing or by pressure washing.

Applying DS160 to a surface that has low pH content may also lead to the formation of white residue. To reduce this likelihood, it is recommended that the surface is rinsed thoroughly with water 2 hours after final application of sealer.

One or two coat application is typically required. Very porous or dusty surfaces may require a second application. Localized areas may require a second application.

If the surface is porous and more product can be absorbed, wait 1-2 hours before the second application following the same method described above.

DS160 is recommended for used as a primer for any of CoverTec's stain resistant sealers to maximize the durability and effectiveness of the stain proofing.

Allow DS160 to dry a minimum of 2 hours before applying the stain resistant sealer. **Compatible sealers include CoverSeal Pen55, PREMIUM and CoverShield U140.**

Water Vapor Emission Testing
Before surface coatings, paint, floor covering etc. are applied over the DS160 treated concrete it is important to test that moisture level is within acceptable limits according to floor covering manufacturer's warranty. Test the concrete to determine the moisture vapor transmission rate (MVER) using the ASTM F1869 anhydrous calcium chloride test.

To ensure accurate readings of slab moisture transmission, a waiting period of 5-7 days is recommended after the last application of DS160. Conducting Calcium Chloride testing too soon can result in spurious results if the internal gel has not had sufficient time to internally dry.

Vertical Surfaces
On vertical, formed surfaces, apply DS160 as soon as the forms have been stripped and the surface rubbed, (if required). Apply from the bottom up, going over the area twice to ensure saturation. Pay attention to the quantity of material applied by square footage (square meter). You should apply one gallon to every 200 ft^2 (1 liter/ 4.9 m^2) of wall surface. Do as many light applications as required to result in that application rate.

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

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

Limitations
Do not apply if the surface temperature is below or going to drop below freezing, (32 degrees F) during application
Carbonated concrete will require a pretreatment to ensure free calcium is available in the concrete.
Will not accommodate dynamic movement cracks.
Protect aluminum, glass from overspray.
DS160 does not stain proof.
Do not dispose of into the water system.
Excess material not absorbed must be removed to prevent the formation of a soft film on the surface.

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.