



The A, B, C's" of Applying Deep Seal

Application Procedures for Low Moisture Content and Low Hydrostatic Pressure:

Rate of Application: Typically, coverage on "average" concrete should be at a rate of 150 sq. ft. per gallon. Coverage rate can vary due to different absorption qualities from 150 to 200 sq. ft. per gallon. Before applying, it is a good idea to "calibrate" the application rate. Mark off a 10 x 15 area and apply one gallon of material evenly over the surface. On power troweled or tight surface finishes, mark off a larger area targeted for a higher coverage rate, e.g., 175 sq. ft. or even 200 sq. ft. on very tight surfaces. "Calibrating" will give you an "eye" for how much material should be applied—so you will run short, or apply too much material.

Surface Conditions: Internal Deep Seal (DS) can be applied to dry surfaces, but, is best applied to damp surfaces. Ensure there is no standing or running water on the surface to be treated.

Be aware of surface temperature. If the concrete or substrate is too warm (i.e. warm to the touch), evaporation will reduce the amount of DS available to penetrate through the slab.

To ensure a minimum of product lost to evaporation, pre-wet or soak the area to be treated with water, spread out or mop up any puddles, and proceed with the DS application when the surface has dried to the "damp" stage.

Application: Apply DS liberally (at minimum the predetermined coverage rate) and saturate all areas. Each spray swath should overlap the previous one by half its width.

To ensure saturation, check areas 15 to 20 minutes after application because porosity will vary (over the area being treated) and some areas will appear to be drying faster.

The recommended procedure is; as soon as the entire area has been covered, go back and go over those areas that are most absorbent and drying fastest, again, at the same speed or rate of spraying. Do not leave puddles of DS. Use a mop or squeegee to remove any puddles.

Applying water over a DS application will push the DS deeper.

It is recommended the water be applied no sooner than when the surface treated with the DS is no longer wet, but, not yet dry. I.e. damp.

Testing for number of coats of DS required & Multiple Coat Applications Procedures:

To determine whether a second application of DS is necessary, tape down several pieces of ordinary, dry sponge or foam rubber, to the slab. Leave for 24 hours, and then remove. If, the slab beneath them or the sponge itself is wet, the slab requires another application of DS.

Taping down 1' x 1' pieces of plastic also works well, as does laying a rubber mat having a smooth underside. If moisture is still coming through the concrete, the area under the sponge, plastic or mat will be darker in color than the uncovered concrete. The DS for this second application should be applied to saturation again, checking for areas of varying porosity, but, not leaving any puddles. Generally, the second coat will provide a coverage rate of around 275-300 sq. ft. per gallon.

Wait 16 to 24 hours.

Any alkali or leaching that occurs after the second treatment must be flushed off and the slab cleaned thoroughly (and allowed to dry) prior to a re-testing with sponges (if required) to determine the need for any further application of DS.

Note: Steps or areas that have been salted over many years, is a good example of a substrate with extraordinary contaminant content. In such cases the process of flushing (after applying DS) to ensure all salts, alkali or contaminants have been pushed to the surface and removed, could involve cycles of daily flushing and drying for 3 to 7 days before no further contaminant appears after drying.

Once the rinsing is no longer flushing anything to the surface, and no further application of DS is required, the treated and flushed surface should be allowed to thoroughly dry for a minimum 24 hours prior to the application of any secondary coatings.

More Thorough Moisture Testing

In cases where surface coatings, paint, floor covering etc will be applied over the concrete, it is advisable to do thorough moisture testing to insure the slab is within acceptable limits for the subsequent application. Standard Calcium Chloride testing kits can be used. However, to insure accurate readings of slab moisture transmission, a waiting period of 5-7 days is recommended after the last application of DS. Doing Calcium Chloride testing too soon can result in spurious results if the internal gel has not had sufficient time to internally dry.

On vertical, formed surfaces; Apply DS 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. One such application (to saturation) will usually be sufficient for most requirements.

Sixteen (16) to 24 hours after the first DS application the surface should be thoroughly flushed with clean water, to remove any alkali or contaminants the DS pushes to the surface. Allow surface to dry.

On overhead surfaces, DS is best applied with a sprayer using multiple light applications as required.

The first application should wet the surface. Do not saturate, as dripping will occur.

Back-filling foundations may take place 12 hours after application.

Foot traffic is permissible in most cases within 3 hours or when surface appears dry.

Packaging

- 1 gallon jugs
- 5 gallon buckets
- 55 gallon barrels

Limitations

Deep Seal MUST be able to penetrate or soak into the concrete.

Deep Seal will not work if it cannot penetrate and soak into the substrate. Therefore, all previous coatings, paint, adhesives—any material that will inhibit penetration must be removed. Contact us for help in removing previous coatings.

To Test For Penetration Prior to Application

Just pour a little water... a few ounces... on the concrete. If it soaks in, then the DS will also soak in. If the water does not penetrate or soak into the concrete it tells you there is a coating or sealer, etc. blocking the water and the concrete must be cleaned.

Concrete Remedy™ DS should never be applied if the surface temperature is below or going to drop below freezing, (32 degrees F.)

Caution - Please Note:

1. Do not apply DS to any non-alkali bearing material, or glass, glazed surfaces, or aluminum, as etching will occur. Use protective coverings to ensure no over-spray contact or wind carried contact. In case of accidental contact, rinse thoroughly and immediately with water.
2. DS is not meant to fill or seal cracks. Contact us for help with methods of filling cracks.
3. DS does not stain proof. While DS will not allow penetration of any material below the top 1 to 2 mm of the surface treated (coated), contaminants can penetrate and staining can occur in that top 1 to 2 mm.
4. For surfaces not specified in our literature or if you are uncertain as to previous chemical treatments, (on the surface you are considering applying DS to), we recommend that DS be applied to a small test area first.
5. If Concrete Remedy™ DS becomes frozen, thaw out completely and shake well to fully remix the material prior to using. Freezing will not harm the product. It has an infinite shelf life if kept in an airtight container.

Disclaimer

Concrete Sealer Pro.com believes this information to be true to the best of our knowledge and our products are of the highest quality and uniform within manufacturing tolerances.

Since no control is exercised over product use, no warranty, expressed or implied, is made as to the suitability of products for a particular use or as to the effect of such use, and no liability is assumed, directly or indirectly.

Buyers and users are always encouraged to conduct their own tests prior to application.