



# How to Apply DCI Penetrating Lithium Based Sealer/Hardener



DCI Penetrating Lithium-Based Sealer Hardener is a clear, odorless, VOC compliant, water-based, matte finish concrete sealer, salt protectant and dust proofer that hardens, seals and densifies concrete. It provides all the protection of a high-end penetrating water repellent sealer and offers all the benefits of a surface hardener, sealer, and densifier. This product penetrates and seals by reacting chemically with the concrete surface forming a clear, dense and durable

inorganic topical surface layer that is breathable, abrasion-resistant, and hydrophobic. This penetrating concrete sealer provides no surface gloss and must be scoured using a red and a black scouring pad on a high speed buffer after indoor floor applications to bring up a light shine and remove any residue caused by over-application.

DCI Penetrating Lithium-based Sealer Hardener will extend the life of any exterior concrete slab by reducing spalling and other problems caused by extreme weather conditions. If desired, Lithium-based Hardener Sealer can also be used in conjunction with other membrane-forming sealers for a glossier finish. DCI Penetrating Lithium-Based Sealer Hardener is the choice for interior/exterior polished concrete countertops. Apply at the 200 grit level to either integrally colored or acid stained countertops and continue polishing to achieve a mirror-like finish.

**Coverage Rates:** For smooth surfaces 400-500 sq. ft. per gallon depending on concrete porosity. Porous concrete reduces the anticipated coverage rate. Do not apply in hot, windy conditions.

**DCI Penetrating Lithium Based Hardener Sealer should not be applied to:**

- Stamped, heavily textured, heavy-broom finished concrete
- Soiled concrete cleaned with an orange degreaser
- Concrete stripped of heavy paint, mastic or other contaminants

**Floor Application:**

- Apply the Penetrating Lithium Sealer with a pump up fence and deck sprayer. Spray enough sealer to create/maintain a uniformly damp surface for 20 minutes. Apply more sealer only to areas that appear more dry or absorptive than others. No membrane should be forming on the surface.
- Squeegee away any excess sealer remaining on surface. Do **not** allow sealer to pool anywhere on the concrete.
- Allow the concrete to dry for 24 hours before scouring the floor with a black pad followed by a red pad on a high-speed commercial buffer. Scouring provides enhanced durability and brings up a light shine while removing excess sealer residue. This step should not be considered optional for interior floors. The concrete will continue to harden for seven days after application.



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- Over-applying sealer will cause a milky, dull looking film on the concrete surface that can only be removed by scouring or applying an acid such as vinegar.

On an acid-stained floor, the surface must be completely neutralized and all residues thoroughly removed before sealing. If concrete has not been properly neutralized and cleaned, a temporary “white dusting reaction” can occur between the sealer and the acid stain residue; it will typically disappear within two weeks of application and will not harm the final finish.

## **Polished Countertop Application** (once the countertop has cured):

- Polish to 200-grit. Acid Stain if desired and clean before sealing.
- Apply the Penetrating Lithium Sealer with a pump up fence and deck sprayer. Spray enough to create/maintain a uniformly damp surface for 20 minutes. Apply more sealer only to areas that appear more dry or absorptive than others. No membrane should be forming on the surface.
- Squeegee away any excess sealer remaining on surface. Do **not** allow sealer to pool anywhere on the concrete.
- Allow to dry for 24 hours and begin polishing from 400-grit up to 3000-grit.

## **Vertical Sealer Applications:**

- Apply from the bottom up using a low pressure, 10-25 psi sprayer with a fan-type nozzle. Use a foam brush to catch drips and runs during application.
- Spray enough to create/maintain a uniformly damp surface for 20 minutes.
- Flood the surface until excess runs down 6” to 8” below spray pattern nozzle or sponge surfaces sufficiently to create a uniformly damp surface.

**Clean Up:** Use water and a light detergent to clean applicators. DCI Penetrating Lithium treatments are environmentally friendly and require no special or hazardous disposal methods.

**Maintenance:** Use cleansers with a neutral PH only for floor maintenance (no citrus-based cleansers). While this sealer is chemical resistant and helps reduce staining, citrus-based cleaners can damage the finish leaving the floor vulnerable to staining. Regular maintenance will improve surface shine and prolong the life of the floor. Wipe up any chemical spills as soon as possible.