

How-to Apply DCI 550 Matte Water-Based Polyurethane Sealer to a Concrete Countertop

DCI 550 Matte Water-Based Polyurethane is a protective clear finish, two-component urethane resin. The Part A component must be thoroughly mixed into the Part B component for the material to properly cure and provide a durable, long-lasting finish.

Safety First! Apply this product with gloves, goggles and a dust mask. Proper ventilation to the outside is required while applying. For best results, apply sealer at temperatures between 60F-95F and when the relative humidity is 80% or less. The sealer itself must be above 60F before installing.

This product can also be sprayed from a HVLP Gravity Feed Spray Gun for a finer finish. Mix the product normally and add 20% water to thin for spraying.

Surface Preparation: All surfaces should be clean, dry and free of any debris prior to application. Sand down or fill with slurry all "pinhole" air pockets or voids in the countertop surface prior to application. Surface should be polished to no more than 200-grit prior to sealing. Apply DCI Water Based Sealer with a handheld roller as a primer to countertop surfaces with persistent pinholes.

Contents: Kit includes Part A and Part B Polyurethane containers, one hand-held 3/8" nap roller and one wooden stir stick

Optional Equipment: Chip brush for hard to reach areas and/or a HVLP Gravity Feed Spray Gun with compressed air if spraying.

Coverage: When properly applied to a smooth surface, the mini kit will cover up to 60-75 sq. ft. Coverage will vary with surface conditions.

Mixing Instructions: As a two-part system, Part A must be thoroughly mixed into Part B in order for the material to properly set up for application. Mix three Parts "A" to one Part "B" in a separate container for smaller projects. Immediately replace each lid tightly. For larger countertops, add the Part A into Part B and begin to mix with a wooden stir stick. Mix completely; fold the material over onto itself and carefully scrape the sides of the can to assure nothing is left unmixed. The contents should thicken and become whiter as you stir. Stir for 2-4 minutes until totally combined. Once mixed, the pot life for the sealer is approximately 1 hour.

Application: Use a piece of packing or duct tape to "de-fuzz" the roller prior to application. After the sealer has been thoroughly mixed, pour the material into a clean, dry paint tray. Saturate a de-fuzzed 3/8" nap roller with sealer. Apply a thin, even milky coat to the entire surface. The sealer will self-level so avoid overworking as it can lead to air entrapment which causes foaming on the surface. Carefully wet the roller with sealer and apply along the edges without dripping or overlapping the countertop face. Working time for this material once rolling begins is 5-8 minutes. Applying beyond the recommended working time can result in streaking, a milky appearance and/or an uneven finish.

If spraying, dilute sealer and apply an even coat to the countertop surface. Depending on temperature and humidity, allow 1-3 hours of dry time before applying additional coat (s).

Note: If a second coat should be deemed necessary, apply within 24 hours of the first coat or wet-sand the surface with a 600-grit pad prior application to ensure good adhesion.

Drying Time: Surfaces sealed with DCI 550 Matte Water-Based Polyurethane should cure for 12 hours at approximately 75F before use. Allow for additional drying time if high humidity is a factor.

Clean-Up: The product can be cleaned prior to cure with isopropyl alcohol but can only be removed from fully-cured concrete surfaces using industrial paint strippers, such as the Soy Gel Paint and Sealer Stripper, or by mechanical means. To remove sealer by sanding, wet sand with a 120-220 grit pad or use dry non-loading sandpaper. Leftover product, brushes, paint trays, or roller covers should be responsibly discarded after use.

Maintenance and Cleaning: Surfaces sealed with DCI 550 Matte Water-Based Polyurethane are relatively low maintenance and should be cleaned as needed with a mild dishwashing soap solution and water.

Warning: DCI 550 Matte Water-Based Polyurethane should be applied wearing gloves, goggles and a dust mask. Do not apply in an enclosed area without proper ventilation to the outside. Should accidental contact with the skin or eyes occur, flush thoroughly with fresh water for at least 15 minutes. If swallowed, do not induce vomiting and contact a physician and/or the Poison Control Center immediately.

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