

How-to Apply 550 Glossy and Matte Water-Based Polyurethane Floor Sealer

Product Description: DCI 550 Water-Based Glossy and Matte Polyurethane is a low VOC, aliphatic urethane coating that offers excellent impact and abrasion resistance providing a durable, long lasting finish for your concrete floors.

Safety First: Apply this product with gloves, goggles and a dust mask. Proper ventilation to the outside is highly recommended during application. Should accidental contact with the skin 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.

Kit Includes: Part A and Part B Polyurethane containers and one wooden stir stick

Required Equipment: Non-shedding 3/8" nap roller and frame with an extension pole, chip brush or trim pad to cut in edges if needed.

Optional Equipment: HVLP sprayer and access to compressed air.

Surface Preparation: All surfaces should be clean, dry and free of any debris prior to application. Machine troweled surfaces should be chemically etched with DCI Hard Troweled Floor Prep, or mechanically sanded with a 200 grit sanding screen/ sand paper then thoroughly cleaned.

Priming the floor: For best results, on smooth surfaces, apply a single thin coat of DCI Water Based Sealer. Apply two thin coats for more porous surfaces. Allow the primer to cure 12

hours between primer coats and a minimum of 24 hours before applying the polyurethane. Priming reduces the risk of air bubbles, promotes good sealer adherence and will slightly extend the DCI 550 coverage rate.

Coverage: When properly applied to a smooth concrete surface, the 1 gallon kit will cover up to 300 sq. ft. If priming the floor with DCI Water Based Satin Gloss Sealer, the kit can cover up to 400-500 sq. ft. Coverage will vary with surface conditions.

Mixing Instructions: As a two part sealer, Part A and B must be thoroughly mixed for the material to set up properly. Begin by premixing part A as settling can occur. Combine part A and part B together and mix contents with a low speed electric drill (maximum 650 RPM to avoid bubbling) using a jiffy mixer attachment. NEVER mix the product at a high-speed. Carefully scrape the sides to assure nothing is left unmixed. Stir for 2 to 4 minutes until totally combined. Measure three Parts "A" to one Part "B" (by volume) and mix in a separate container for smaller projects. Immediately replace each lid tightly. Use any unmixed materials within 48 hours of opening. Once mixed, the pot life is approximately 1 hour.

Application: When applying in optimal temperatures and humidity conditions of 75F and 50% humidity, 550 polyurethane pot life is approximately 1 hour. Do not apply to surfaces below 65F or above 90F or if humidity levels are above 80%. Lower temperatures will maximize pot-life and higher temperatures will reduce it. The sealer itself must be above 60F before installing.

Applying Sealer with a Roller: Pour mixed material into a plastic paint tray. Avoid pouring directly onto the floor. Saturate roller in sealer

and roll off excess in paint tray. Apply an even, consistent coat allowing the weight of the roller to do the work. Do NOT bear down on the roller to release more sealer as this can cause bleed out to the edges resulting in lap lines. Maintain a wet edge during application and carefully blend out any roller lines without overworking the sealer. Once rolling begins, working time is approximately 5 to 8 minutes so having one person mixing and one person applying would be essential for larger projects. Applying beyond the recommended working time can result in streaking, a milky appearance and or an uneven finish.

Rolling a Second Coat (optional): A second coat of sealer can be applied after 15 to 18 hours of cure time on the first application. The first coat must be hard and clear before proceeding with the second. An additional coat will not improve the appearance of the first if issues like streaking, ridges or bubbles have occurred. After 24 hours, lightly scuff the surface with a 400 grit sand paper and clean well BEFORE applying a second coat to ensure good adherence.

Spraying 550 Polyurethane with an HVLP

Sprayer: If spraying indoors, cover the floor and other surfaces to protect from overspray before applying. Clean the HVLP sprayer according to instructions before beginning the project. Set the air compressor to approximately 40 PSI. Mix the polyurethane as per the mixing instructions and pour into sprayer. Spray an even, consistent coat onto the surface. Avoid pooling during application as the milky color will not clear if sealer is applied too heavily.

A second coat can be applied after 15 to 18 hours dry time. If more than 24 hours have elapsed, lightly scuff the surface with a 400 grit

sand paper and clean well BEFORE applying a second coat to ensure good adherence.

Cure Time: Surfaces sealed with DCI 550 Water-Based Polyurethane should cure for 24 hours at approximately 75F before foot traffic, 72 hours before driving across, 96 hours before parking on the surface. Allow for additional drying time in the event of high humidity or low temperatures.

Clean-Up: The product can be cleaned from tools and sprayers prior to cure with hot soapy water. Once fully cured, 550 polyurethane can be removed industrial paint strippers, such as the Soy Gel Paint and Sealer Stripper, or by wet sanding 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 550 Water-Based Polyurethane are relatively low maintenance and should be cleaned as needed with a mild, non-ammonia dishwashing soap solution and water.



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