

CoverQuartz Flooring System

CoverQuartz is a decorative resinous flooring system with extreme nonslip, wear resistance, and compressive strength. This system creates an ultra durable, stain resistant, sanitary, and seamless surface that can be installed with quick turn around times and Zero VOC. The floor is applied in successive lifts of epoxy and colored granules until the desired thickness is achieved. Finished thickness of a double broadcast system is approximately 3/32" to 1/8". The Quartz broadcast results in an attractive floor surface with extensive color options and textures. Textures can range from slip resistant to smooth. CoverQuartz is available in standard blends (see the CoverQuartz Color Card). Custom blends can also be field created using standard solid colors. These systems combine the benefits of Epoxy resins and Polyaspartic technology providing superior adhesion, abrasion resistance, UV stability, and chemical resistance. Finished floor meet ADA, USDA and OSHA standards.



CoverQuartz System Applicable Products

CoverShield E900 (binder-coat) is a high wear resistant, pigmented, gloss, epoxy coating with excellent light reflectivity and adhesion.

CoverShield E130 (indoor topcoat) is a water clear two component high wear resistant, self leveling, epoxy coating with excellent UV resistance for interior use.

StrongSeal Plus is a two component, high performance water based clear polyurethane sealer. Non yellowing and resistant to staining and a wide range of chemicals. The product is odorless and can be applied internal or external concrete. Also available in Matte and Satin

CoverQuartz Aggregate is a quality crystalline quartz colored with a high performance surface coating. They are designed for use in a variety of resin systems, including epoxies, urethanes.

CoverPrep CB170 Thickened cove resin.

Where To Use

- | | |
|-----------------------|-------------------------|
| • Balconies | • Offices |
| • Basements | • Pharmaceutical Plants |
| • Cafeterias | • Pool Decks |
| • Clean Rooms | • Public Municipalities |
| • Commercial Kitchens | • Restaurants |
| • Dog Kennels | • Restrooms |
| • Food Handling | • Retail Stores |
| • Food Processing | • Schools |
| • Garage Floors | • Show Rooms |
| • Hallways | • Stadium Hallways |
| • Hospitals | • Wet Laboratories |
| • Industrial Hallways | • Zoos |
| • Laboratories | • And more... |
| • Locker Rooms | |

Substrate Preparation

Proper preparation is critical to ensure adequate adhesion. The substrate must be dry and free of all wax, grease, oils, fats, loose particles and laitance. Laitance and unbonded cement must be removed by mechanical methods, i.e., abrasive blasting or scarifying. The surface must show open pores throughout and have a surface profile of approximately 10 mils or CSP 3. For recommendations or additional information regarding substrate preparation, refer to CoverTec's Surface Prep Guide.

Tools Needed

- | | |
|-----------------------|--------------------|
| • Flat Blade Squeegee | • 2 gal Bucket for |
| • Notched Squeegee | Quartz Aggregate |
| • Shed Free Short Nap | • Spiked Shoes |
| Rollers and Frames | • Masking Tape |
| • Mixing/Measure | • Plastic |
| Containers | • Wet/Dry Vac |
| • Mixing Drill with | • Scraper |
| Mixing Blade | • Cove Trowel |

Mixing Area & Mixing

Select a convenient mix area and protect the surface from spillage by covering with a layer of cardboard and/or sheet of plastic. Make ready all necessary tools, mix and measure containers, etc. DO NOT MIX EPOXY UNTIL READY FOR IMMEDIATE USE. Once hardener and resin are combined, it must be used without delay. Apply masking tape wherever coating is intended to stop. Thoroughly mix parts A and B using a mixing blade for several minutes. Avoid whipping air into the material by mixing at too high a speed or too vigorously. Make sure to scrape any unmixed material from the sides of the mixing container.

Spread Rates

All coverage rates are theoretical. Variables include, but are not limited to: finished texture, aggregate size, substrate conditions, installation techniques, material temperature, surface temperature and air temperature at the time of application. Verify spread rates early on to avoid material shortages.

Priming

CoverShield E900 and E130 are self priming; however, extremely porous substrates may require a low viscosity primer to avoid out-gassed bubbling.

Cove Base Installation

See CoverPrep CB170 Cove Base Installation Guide

Double Broadcast Method

A. Apply a "flood coat" of mixed E900 at approximately 100 ft²/gallon with a 3/16" V notch squeegee and back roll with a quality non-shed roller.

B. While wearing spiked shoes walk on the wet epoxy holding a 2-gallon container and broadcast the aggregate until the floor

appears even and dry. Be sure to keep moving while throwing the aggregate UP into the air so it falls vertically onto the epoxy. Do not throw aggregate into the epoxy at an angle as this can cause waves and imperfections. Do not rush, as it may take 15 to 30 seconds for the aggregate to be absorbed by the epoxy. Do not walk over already broadcast aggregate. Be sure to leave a "wet edge" (a 24" strip "unseeded" to permit overlapping when proceeding onto next section).

D. When epoxy is dry sweep and vacuum the excess aggregate using a stiff, clean, dry broom with synthetic bristles and a wet dry vac. Save the recovered aggregate and use it for the next broadcast. Sand or scrape any imperfections before proceeding to the next coat.

F. Apply the next coat using E130 with a 12" flat squeegee at approximately 80-100 ft²/gallon. Move squeegee in a continuous semi-circular motion from left to right to left, etc. Back roll with a quality short nap, non-shed roller.

G. Broadcast aggregate (repeating step C) and let cure.

H. Sweep and vacuum the excess aggregate again. Scrape the floor with a trowel or scraper to remove any imperfections. Sweep or vacuum the floor again readying the floor for topcoat.

Top Coats

A. Apply the CoverTec topcoat at approximately 80-100 ft²/gallon with a 12" flat squeegee. Move squeegee in a continuous motion from left to right to left. Steady pressure on squeegee (using the aggregate as a guide) is necessary to obtain a uniform appearance. Remove all puddles and ridges before they are out of reach.

B. Back roll with a quality 3/8" nap, non-shed roller.

C. If additional top coats are needed Repeat steps within re-coat window adjusting coverage rates to dictate texture.

Finished Textures

Texture is typically produced through a combination of quartz granule sizes, how aggressively the cured floor is sanded prior to applying a topcoat and the thickness and/or number of topcoats. CoverTec makes available 2 sizes of broadcast color quartz: broadcast medium and broadcast fine. A larger, more angular colored quartz is also available that is used in a troweled application but may be used if a very rough and aggressive texture is desired.

- Smooth: Use broadcast fine quartz or sand aggressively the cured floor or apply thicker or multiple topcoats.
- Medium: Very lightly sand/scrape the cured floor and apply medium topcoats.
- Coarse: Do not sand the cured floor or mix larger quartz granules into the selected quartz blend used in the broadcast step and use thinner topcoats