# CoverFlake Flooring System

CoverFlake is a cost effective decorative resinous flooring system. This system creates a durable, stain resistant, sanitary and seamless surface that can be installed with quick turn around times and low VOC. The color flake broadcast results in an attractive floor surface with unlimited color options and textures. Textures can range from smooth, orange peel and slip resistant. CoverFlake is available in standard patterns (see the CoverFlake Color Card). Custom flake mixes can also be field created using standard solid colors. These systems combine the benefits of Epoxy resins and Polyaspartic technology to provide superior adhesion, abrasion resistance, UV stability and chemical resistance. Finished floor meets ADA, USDA and OSHA standards.

## CoverFlake 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 UV resistance for interior use.

**CoverShield P650** is a fast set , high performance clear polyaspartic sealer. P650 is non yellowing and resistant to staining and a wide range of chemicals. The product has very low odor and can be applied internal or external concrete. Also

**CoverFlakes** is a UV stable decorative aggregate composed of water based resin materials, organic minerals, additives and various pigments.

## Where To Use

- Aircraft Hangers
- Auto Dealerships
- Bars, Pubs & Taverns
- Basements
- Balconies
- Cafeterias
- Clean Rooms
- Commercial Kitchens
- Dog Kennels
- Garage Floors
- Grocery Stores
- Hallways
- Hospitals
- Industrial Hallways
- Laboratories
- Lanais
- Locker Rooms
- Night Clubs
- Offices
- Pharmaceutical Plants
- Pool Decks
- Public Municipalities
- Restaurants
- Restrooms
- Retail Stores
- Schools
- Show Rooms
- Stadium Hallways
- Zoos
- And more...

## Substrate Preparation

Proper preparation is critical to ensure adequate adhesion. The substrate must be dry and free of all wax, grease, oils, fats, laitance and loose particles. 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
- Notched Squeegee
- Shed Free Short Nap Rollers and Frames
- Mixing/Measure Containers
- Mixing Drill with Mixing Blade
- 2 gal Bucket for Quartz Aggregate
- Spiked Shoes
- Masking Tape
- Plastic
- Wet/Dry Vac
- Scraper

## 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 seed or to vigorously. Make sure to scrape any unmixed material from the sides of the mixing container.

## Priming

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

## Spread Rates

All coverage rates are theoretical. Variables include, but are not limited to: 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.

## Temperatures

Temperatures of both the floor and the product must be at least 65°F/18°C. Do not attempt to install the material if the temperature of the components is above 85°F/30°C. High temperatures will not allow enough working time as the product will cure prematurely. Conversely, if the temperature of the components is 65°F/18°C or lower, the system will be stiff and difficult to level.

## Application Instructions

1. E900 binder coat is mixed 2 parts A to one part B and immediately poured out onto the floor in ribbons. Evenly spread with a flat squeegee and back roll with a short nap roller at a coverage rate of 150-200 $ft^2$/gallon.
2. After several minutes when the epoxy has settled, walk over the wet epoxy with spiked shoes and begin broadcasting colored flakes up vertically into the air and continue until a COMPLETE and even layer covers the binder coat (approx 2oz/$ft^2$). Always maintain a 24" wet edge (no flakes) with the binder coat until application is finished. Use lighting and viewing angles to verify there are no visible wet spots. Let cure until the surface is tack-free.
3. Thoroughly scrape floor surface in all directions to remove any loose or angled flakes and produce an even texture. Then thoroughly vacuum off excess flakes and prepare the area for application of top coat.
4. If double broadcast is desired or touch up needed repeat steps 1-3 substituting E900 binder coat with P650 Top Coat.
5. P650 or E130 Top Coat is mixed and then applied with a squeegee and rolled with a shed free medium nap roller. Coverage rate will vary depending on desired texture (106-200$ft^2$/gallon).
6. If a second top coat is desired after the first sealer coat has cured, sand the surface with a rotary sanding machine. Vacuum the floor and apply a second sealer coat in the same manner as the first.

## Finished Texture

Texture is typically produced through a combination of Topcoat thickness and non slip additive

- Smooth: Aggressively scrape chips and use P650 at 75-106$ft^2$/gallon and let level as topcoat.
- Medium/Orange Peel: Apply topcoat at 175-200 $ft^2$/gallon letting the flakes create a orange peel texture.
- Nonslip: Add CoverGrip Nonslip additive to final topcoat and apply at recommended coverage.