



METALLICS APPLICATION GUIDE

This application guide is intended to provide guidelines for installation of the Metallic pigments utilizing SEAL-KRETE High Performance Epoxy-Shell 1000 coatings. These guidelines are based on the best practices to achieve the most elegant looking floor in the least time and least material expended without sacrificing quality. We encourage all installers to develop their own best practices, but using this application guide will accelerate your learning curve.

SURFACE PREP*

New concrete should be allowed to cure for a minimum of 28 days. The concrete must be structurally sound, dry, and free of grease, oils, coatings, dust, curing compounds and other coatings or contaminants. Surface laitance must be removed. Rising moisture vapor emission rate must not exceed 3 lb. per 1000 sq. ft. over a 24 hour period as measured by calcium chloride test method ASTM F-1869. The preferred method of surface preparation is to mechanically abrade the floor by diamond grinding to achieve a final 80-120 grit finish, reference profile CSP-2 according to ICRI. If patching is required, use SEAL-KRETE Fast Cure High Strength Concrete Repair (item #852002).

* Sanding or removing paint containing lead may be hazardous. For information contact the National Lead Information Center at 1-800-424-LEAD or www.epa.gov/lead.

SURFACE PRIMING

A properly primed floor is critical to creating an elegant look and ensuring that there is no out-gassing of the Epoxy-Shell 1000 coating when blending it with the metallic colorant. This can cause noticeable "craters" that are not easy to repair and blend in. We recommend priming with Epoxy-Shell 1000 Black Knight #950 or Epoxy-Shell WB 250 Black Knight #950, following the provided application instructions. If you are trying to achieve a light color, use a light-colored primer. Allow primer to dry thoroughly (Epoxy-Shell 1000 at least 12 hours - Epoxy-Shell WB 250 at least 3-6 hours).

APPLICATION

MIXING INSTRUCTIONS: For use with SEAL-KRETE High Performance Epoxy-Shell 1000 2-part epoxy clear kits. Mix 1 metallic pigment quart jar (32 oz) with 1 gallon Epoxy-Shell 1000 clear Part "A". Mix thoroughly using a low speed drill with mixing attachment for 3 minutes. Add 1/2 gallon Part "B". Mix an additional 3 minutes. Do not aerate the mix. Mix only the amount of material that can be poured and applied immediately during the pot life (approximately 30-45 minutes, depending on air/surface temperatures). The recommended application rate is 75 (24 mil) - 100 (16 mil) sq. ft. per gallon. This thickness will ensure that the metallic pigment can work its magic. During application, the pigments start to move and create a variegated appearance.

Metallic color packs may vary in color. Premixing each metallic color pack to be used on a project is recommended. For example, if a 3 gallon kit of Epoxy-Shell 1000 is going to be used on a project, follow these steps:

1. Open both gallons of Epoxy-Shell 1000 Part "A" and transfer to a larger container
2. Add 2 - quart size (32 oz) metallic color packs
3. Mix thoroughly

For cutting in along a wall:

1. Use premixed material from above
2. Using a graduated cup, mix 2 parts of metallic Part "A" (from above) to 1 Part "B"
3. Stir 3 minutes
4. Pour out thin ribbon along all edges that need cutting in

BASIC FINISHING TECHNIQUES

Depending on the final look desired, the installer can use one of two generally accepted finishing techniques:

1. For a solid, brushed finish, apply using a magic trowel or flat squeegee. This ensures even product application. Check application coverage rate periodically during installation.
2. Start with step 1 above, after metallic has cured 10 - 20 minutes, spritz the floor with denatured alcohol. This loosens the surface tension, dissipates the pigment, removes trowel marks and creates high and low colors for a truly unique look. Only a small amount of alcohol is needed. One gallon of denatured alcohol should cover approximately 2000 sq. ft. The alcohol is best applied with a hand held trigger spray bottle using a coarse spray setting. The alcohol will evaporate and the final look will be achieved within about 1 - 2 hours. NOTE: this application is not legal in SCAQMD due to VOC restrictions.

TOPCOAT (Optional)

For increased chemical and abrasion resistance, we recommend coating with SEAL-KRETE Poly-Shell Clear or Dura-Shell WB.

MAINTENANCE

Important: Wait 30 days before rinsing or cleaning surface.

SEAL-KRETE High Performance Flooring Systems are monolithic, making them easier to clean because dirt and contaminants remain on the surface. They are also stronger and more resistant to chemicals than many other types of flooring. It is important to keep the following things in mind when cleaning SEAL-KRETE High Performance floors:

Dirt and Grime: Given that debris remains on the surface, it tends to act as an abrasive and will eventually mar the finish in heavy traffic environments. Therefore, it is important that floors be properly maintained on a regular basis.

Cleaning Agents: Important, wait 30 days before rinsing or cleaning surface. Clean occasionally with a solution of soap and water or TSP (tri-sodium phosphate) and water. The surface can be spot cleaned with Formula 409® or fantastik® cleaners. If required, the substrate can also be scrubbed with a soft bristle brush or shop broom. Rinse with a garden hose or pressure washer (less than 1200 psi) held at least 18 inches from the surface, using a fan spray pattern.

Tools:

- Mops/Mop Bucket – Use mop bucket with a wringer and 3-gallon standard bucket. For dust removal, use a dry mop.
- Soft-Bristled Brush/shop broom – For more difficult to remove stains, a soft bristled brush may be used to agitate dirt and debris. Be sure to use a brush with soft bristles as hard bristles may mar the surface over time.
- Foam Squeegee – Use a foam squeegee after you mop to remove any excess water.
- Garden Hose or Pressure Washer – For rinsing cleaning agents.

If you have any questions about our product, please don't hesitate to contact us so we can further assist you. Please email: tech@seal-krete.com or call 1-800-323-7357.

