



RokRez Pro & Metallics Application Instructions

Product Description:

The Simiron™ Metallic finish epoxy floor combines the RokRez Pro™ epoxy with the Metallic Additive by Simiron™.

Typical Uses:

- Schools
- Retail Floors
- Hospitals
- Office Buildings
- Showrooms
- Airports
- Offices
- Residential Floors

Overview:

RokRez Pro™ combined with Metallic Additive by Simiron™ pigment can create an exciting new look for most **interior** concrete floors. This guide will outline many of the steps needed to achieve these dramatic floors. It is essential that an installer have experience with these systems before taking on any projects for hire. Consult with your dealer about certification training classes offered by Simiron.

Application Temperature:

Please read all information on the Product Data Sheet before starting this project. Material should never be stored in an excessively hot or cold environment. Failure to follow these guidelines will result in product failure.

Surface Preparation:

New concrete must have cured for a minimum of 30 days. Test the concrete using the “water drop test”. While dripping water onto the floor, the concrete should readily accept the water and turn dark. Test in multiple areas throughout the project area. If the water “beads up” this is an indication that a sealer or contaminant is present. Before applying any coating the

concrete must readily accept the water being dripped onto the surface.

A moisture test is always recommended before considering a project on any concrete floor. The preferred testing method is a *Calcium Chloride Test* or a *Relative Humidity Test* using a **Hygrometer**. Please review the Moisture Testing Guide available on our website, at www.simiron.com or ask your dealer for details.

The interior concrete floor should be clean and free of all contaminants. Remove all oil/grease contamination by using a recommended degreasing agent. If a sealer such as “Cure & Seal” or curing agent is present, it must be removed. Removal products are available. A simple diamond grinding usually will not remove these coatings. Remember the concrete must readily accept water being dripped onto the surface. Applying epoxy coatings over a contaminated or sealed surface will result in a failure in your project. See your dealer for recommendations. Any previous failing coating should be completely removed. Old sound epoxy coatings should be sanded dull using a diamond grinder or similar and any dust or debris vacuumed with a HEPA vacuum.

If you are unsure of the type of coating currently on the floor, consult your distributor for assistance. A test to confirm compatibility is always a good idea when starting any project.

Diamond grind the entire floor to create a CSP-2 to CSP-3 profile; once complete, vacuum all of the dust and debris. Visit www.diamabrush.com or follow your dealer’s recommendations regarding the concrete prep process. If you are using an Acid to prepare the floor, please read all directions and always neutralize the floor before coating. The floor must be thoroughly dry before beginning. This will usually take several days depending on temperature and humidity. Protect all adjacent areas from the acid runoff. Always follow all safety precautions when using Acid. Consult your dealer for recommendations.



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Wear protective gloves and eyewear for floor preparation and applying the coating. An approved N95 dust mask or paint respirator is also recommended. Always change clothing worn during the grinding process so as not to contaminate the finishing steps with dust and debris.

Priming Coat:

Wear protective gloves and eyewear. Read the Safety Data Sheet before using. Use of an approved N95 dust mask or Paint Respirator is recommended.

After the surface has been prepared (diamond grinding) and free of contaminants, apply a coat of Simiron's 1000 HS Epoxy Primer. *This is a clear primer.* Follow the information on the product container and/or the Product Data Sheet regarding application methods. This product is 100% Solids, Zero VOC, and has a low viscosity to allow for excellent surface wetting and penetration. The 1000 HS has extended working time to promote adhesion and seal the surface. It also helps to reduce pinholes, fish eyes, craters and outgassing on topcoats. After application, inspect the concrete floor for any missed areas or pinholes. If necessary, another coat of this product can be applied following the directions within the Product Data Sheet.

Intermediate Coat:

Wear protective gloves and eyewear. Read the Safety Data Sheet before using. Use of an approved N95 dust mask or Paint Respirator is recommended.

After the 1000 HS has been applied and has dried, it's time to apply our first intermediate coat of epoxy. This pigment coat of RokRez Pro (usually RokRez Pro Steel Gray) will be applied at 8 mils thickness or 200 sq. ft. to the gallon.

Open the RokRez Pro Steel Gray kit and remove the gallon can of activator and the plastic support. It is important to mix the 2

gallons of Steel Gray "Base" with an electric drill for a couple of minutes at a medium speed - using a "jiffy" type mixing blade. After mixing the base, open the activator gallon can and slowly pour it into the 2 gallons of RokRez Pro Steel Gray.

Mix with a "jiffy" mixing blade using an electric drill at medium speed for 3 minutes. Do not use a "mud" drywall mixer. For best results, always use a corded electric drill for mixing and always use a clean mixing blade. Using a dirty mixer may cause sharp spots on the mixing blade to scrape the pail causing plastic shavings to contaminate the mixture.

After 3 minutes of mixing, pour the entire pail directly onto the floor in a ribbon shape. *Pour until it starts to drip then stop.* Do not scrape the bucket onto the floor and never flip the bucket upside down on the floor. Excessive draining, scraping or flipping will result in "sticky" spots on the floor which will not cure. Spread the product evenly using a 3/16" notched or straight epoxy floor squeegee. Back roll the floor, in the opposite direction, using new (9" or 18") - 3/8" woven, non-shedding, lint free roller. It is best to wear epoxy spiked shoes during this process.

When the coating from this step has dried, it is important to inspect the surface for defects such as pinholes. If present, these pinholes, caused by outgassing of the concrete, must be repaired. The pinholes can be repaired by sanding the crater and reapplying more of the intermediate coat or, if they are large, by using an epoxy crack filler. Let it dry before proceeding. *See our problem solver guide for tips.* If the floor has visible debris, it's best to sand the entire surface using a mechanical floor machine with an 80 grit sanding screen and a HEPA Vac to remove dust.

Two important things to avoid:

- Never flip a mixing pail over on the floor to drain. This could result in sticky (uncured) spots on the floor.



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- Never brush or roll off the inside walls of the pail. This could result in sticky (uncured) spots on the floor.

Applying Metallic Mid-Coat:

Wear protective gloves and eyewear. Read the Safety Data Sheet before using. Use of an approved N95 dust mask or Paint Respirator is recommended.

This Metallic mid-coat will be applied at a rate of 20 mils or 80 square feet to the gallon. This is required to achieve the dramatic effects desired in using a metallic system.

Open the RokRez Pro (Clear) kit and remove the activator can. *You will need another clean empty 5 gallon pail for this step.* Pour the activator slowly into the empty 5 gallon pail. Slowly mix the desired amount of Metallic powder into the activator. If mixing a 3 gallon quantity you will need a complete jar of Metallic Additive by Simiron. Some colors may require additional pigment. Test prior to using. Slowly mix until all of the metallic powder is completely dissolved into the activator. An "egg whisk" may be helpful to dissolve the pigment. Once this is complete, remove the plastic bladder from the RokRez Pro Pail and slowly pour the activator/metallic mixture into the Clear RokRez Pro Base. RokRez Pro is always a two parts base to one part activator mix. *The Metallic Additive powder is additional and does not replace the amount of activator needed.*

Mix with a "jiffy" type mixing blade using an electric drill at medium speed for 3 minutes. Do not use a "mud" drywall mixer. For best results use a corded electric drill for mixing. Always use a clean mixing blade. Using a dirty mixer may cause sharp spots on the mixing blade to scrape the pail causing plastic shavings to contaminate the mixture.

After 3 minutes mixing, pour the coating directly onto the floor in a ribbon shape. Pour until it starts to drip then stop. Do not scrape the bucket

onto the floor and never flip the bucket upside down on the floor. Excessive draining, scraping or flipping will result in "sticky" spots on the floor that will not cure. Spread the product evenly using a 3/16" notched epoxy floor squeegee or a new 3/8" woven, non-shedding roller with Wooster mil gauge end caps.

Once the entire surface is covered, use a 9", woven shed-resistant, 3/8" nap roller cover on a standard roller frame to back roll in the opposite direction. Use the roller to back roll the entire area in one direction. Once complete (*while wearing your epoxy spiked shoes*) use the roller to create an irregular swirl pattern to "mess up" the look. *It's hard to make a mistake here.* Just swirl it around and move on. *Remember, whatever you see in this part will change when the product levels out.* Let the surface dry 24 hours prior to light foot traffic. It's always a good idea to tape off the area just in case someone forgets or doesn't know you have a floor in process.

Performance Clear Coat:

Prior to application of a top coat, it is best to do a light sanding of the previous epoxy coat to remove any imperfections. This can be done by using an 80 grit sanding screen on a floor machine. The surface must be dust free before proceeding to the clear coat.

The Simiron 971 EPS Gloss is a great top coat choice. It's extremely UV stable, abrasion resistant & has the best clarity on metallic finishes. On their own, epoxies tend to yellow or amber when exposed to sunlight and scratch very easily. By adding a topcoat of 971 EPS, you'll take care of both issues in one thin coat. The 971 EPS has a 2:1 (base to activator) mix ratio and is applied at 4 mils or 400 square feet per gallon. It is best applied by using a straight epoxy floor squeegee and then back rolled in the opposite direction using a non-shedding 3/8" woven, lint-free, roller cover. It is helpful to have a person help by watching your application to



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ensure no spots were missed. Clear coats like the 971 EPS can be tricky to apply and will require practice before taking on any project.

This step needs to be done 24 hours after the last epoxy coat was applied. If you exceed this time frame, the epoxy will need to be sanded using an 80 grit sanding screen on a floor machine with a HEPA vac before applying 971 EPS.

Non-Skid Additive:

If a slip-resistant surface is desired, an slip-resistant material can be mixed into the topcoat or glass bead can be broadcast onto the topcoat and back rolled. Consult your dealer for a recommendation.

Remember to consult your distributor. Always do a test project before taking on a large project or ask your dealer for a referral to a contractor in your area with experience. Your Dealer is a valuable resource and is always able to help with your project questions.