

A Decorative, Light to Medium Duty Polymer Flooring System Using Metallic Pigments

DESCRIPTION:

The FLOOR-ESSENCE Metallic System or “Metallic System” is a unique, decorative floor coating system using a pigmented base coat topped with clear polymers to carry metallic pigments that create a variegated, 3D appearance. The finished flooring system can be created with an infinite variety of patterns and finishing techniques limited only by the installer’s imagination.

RECOMMENDED USES:

The FLOOR-ESSENCE Metallic System is specified for use as a high performance, decorative flooring system in areas that are subjected to foot or wheeled traffic. It is intended as a high wear system for use in commercial, institutional or residential spaces where a durable, seamless, low maintenance, decorative floor finish is desired. Typical applications include retail stores, showrooms, offices, schools, residential basements/rec rooms, dining and bar areas of restaurants, etc.

SYSTEM FEATURES:

- 100% solids, very low odor and VOC compliant
- Wide variety of metallic colors available. Combine different metallic colors, different basecoat colors and finishing techniques to create infinitely variable, unique design possibilities
- Good chemical and abrasion resistance
- Easy to Clean and Maintain
- USDA / FDA accepted for use in food retail locations
- Smooth, gloss finish is standard, but can be varied using different finish coats
- Easy mixing ratios and application steps

BASIC SYSTEM INSTALLATION STEPS:

1. Prepare substrate according to ROCK-TRED’s Surface Preparation Guide. A minimum surface profile of CSP-2 achieved by diamond grinding is recommended.
2. Perform any necessary substrate patching using approved ROCK-TRED materials.
3. Apply appropriate solid color primer for job site conditions. Recommended ROCK-TRED primers for this system include POXI-ROCK Primer or CHEM-ROCK Primer. Install at manufacturer’s recommended coverage rates and back roll thoroughly to endure pinhole free finish. If desired, a sprinkling of aggregate such as PCA322 or PCA321 can be cast into primer to create more “movement” in the metallic coat to follow.



4. After primer is sufficiently cured, apply metallic carrier coating at 80 sq. ft. per gallon and use appropriate finishing techniques to achieve desired appearance. Some techniques include drizzling a 2nd color of metallic pigmented carrier coating into the first, rolling with a loop roller or textured roller cover, dragging wires randomly through the coating, rolling in a swirling pattern, spritzing the surface very lightly with denatured alcohol to cause pigment separation, etc. It is important to not start the finishing technique too soon after placing the carrier or all the finishing will be lost as the carrier coating flows back together. Suitable liquid carriers for ROCK-TRED metallic systems include CHEM-ROCK LV-UV, CHEM-ROCK LV, CHEM-THANE P-50, P-80 and P-100. Different carriers can yield different effects depending on their rate of cure and material composition.
5. After metallic coat is cured it will yield a smooth, high gloss finish. An abrasion resistant high performance top coat is highly recommended since smooth, gloss surfaces show every scratch and imperfection. Recommended top coats include CHEM-THANE WBP Gloss or Low Luster, CHEM-THANE 509 Gloss or Satin, CHEM-THANE P-50, P-80 or P-100.
6. If a texture other than smooth is desired an additional clear coating must be applied heavy enough to encapsulate broadcast and back rolled anti-slip aggregate. Recommended texture coats include CHEM-ROCK LV, MV, LV-UV or CHEM-THANE P-50, P-80 or P-100 applied at 150 sq. ft. per gallon seeded with appropriately sized aluminum oxide and then back rolled to finish.

FLOOR-ESSENCE METALLIC SYSTEM DATA SHEET

SYSTEM COMPONENT PRODUCTS:

- Primer: CHEM-ROCK PRIMER or POXI-ROCK PRIMER pigmented in a solid color.
- CHEM-ROCK LV, LV-UV, CHEM-THANE P-50, P-80 or P-100 for metallic carrier coat.
- CHEM-THANE WBP Gloss or Low Luster, CHEM-THANE 509 Gloss or Satin, CHEM-THANE P-50, P-80 or P-100 for abrasion resistant finish coat.
- CHEM-THANE P-50 or P-100/CHEM-ROCK LV, MV, LV-UV or CHEM-THANE P-50, P-80 or P-100 for texture coat.
- ROCK-TRED Floor-Essence Metallic Pigments
- ROCK-TRED Universal Colorant.

- DO NOT overload the metallic pigment – always use recommended loading ratios
- DO NOT thin the polymer products.
- DO NOT apply when humidity exceeds 70% indoors.
- DO NOT allow material to puddle during application.
- Allow each coat to dry tack-free or clear before recoating.
- Apply each coat within 24 hours of previous coat.
- DO NOT apply to structurally unsound surfaces.
- Remove all surface oil and/or grease
- Mix full kits of resin/hardener only. Kit components are pre-measured for optimal performance. Catalyzation errors due to mis-mixing in the field voids product warranty.

OPTIONAL SYSTEM COMPONENT PRODUCTS:

- If need is indicated through proper ASTM testing, or as a precaution, ICP's Arizona Polymer Flooring's VaporSolve System can be applied directly to the concrete prior to the primer coat to mitigate moisture vapor transmission.
- Pre-patching to non-moving joints, cracks, spalls or eroded areas of concrete can be completed using ROCK-TRED's POXI-ROCK FLOORING Mortar, Crack N Patch Kits, ROCK-MENDER or RQP rapid set patching compound.
- If the concrete substrate is less than 5 years old, or there is evidence of minor movement along the joints, control joints through the FLOOR-ESSENCE Metallic System should be installed. After cutting, the joints can be filled with ROCK-TRED's ELASTI-POXI JOINT FILL permanently flexible sealed joints.
- Floor-Essence Metallic pigments may be combined with the ROCK-TRED SL System to produce a heavy duty, 1/8" thick metallic system with high compressive strength and impact resistance. Contact your local ROCK-TRED representative or the corporate office at 888-ROCK-TRED for more details on this specialty system.

FOR BEST RESULTS:

- Recommended for Interior Use Only unless both carrier coating and finish coatings are CHEM-THANE P-50, P-80 or P-100.
- Incorporate the dry Floor-Essence Metallic pigments into the carrier resin the day before the installation. Do this by mixing just the metallic pigment and the carrier resin on low speed. This will help to fully disperse the pigment through the resin. Mix again prior to adding the hardener at time of install.
- Select a proper solid color for your base color. Especially when using lighter colored metallic pigments, the base color can greatly influence the finished appearance of the floor. Just by altering the base color different tones and finishes will result.

SURFACE PREPARATION:

The substrate must be clean, dry and sound. New concrete should be cured for at least 28 days @ 70°F and have an effective moisture vapor barrier in place. If the concrete is too new, and/or when moisture testing per ASTM F2170 shows results over 80% RH, the substrate should be treated with ICP's Arizona Polymer Flooring System's Vapor Solve System per specifications. Remove dust, laitance, grease, curing compounds, waxes, foreign particles, disintegrated or soft base materials and any previously applied potentially incompatible coatings. Create a surface profile on the substrate by either steel shot blasting or diamond grinding to a minimum CSP-2 profile. For additional floor preparation information refer to ROCK-TRED'S Surface Preparation Guide.

Review ROCK-TRED'S Safety Data Sheets (SDS), labels and individual technical data sheets for the component products prior to mixing and applying.

ADDITIONAL REFERENCE MATERIAL:

FLOOR-ESSENCE METALLIC System AIA Specification
Component Tech Data Sheets
Component Safety Data Sheets
ROCK-TRED's Surface Preparation Guide
ROCK-TRED's Floor Maintenance Instructions

MAINTENANCE:

For optimal floor appearance and performance following installation, refer to ROCK-TRED's Floor Maintenance Instructions.

CUSTOMER NOTE:

For information on application situations not covered above, contact your local ROCK-TRED representative or the corporate office at 888-ROCK-TRED.

WARRANTY STATEMENT: Information about ROCK-TRED products is given to the best of our knowledge, based on tests and experience. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you will make your own tests to determine the suitability of the product for your particular purpose. As products are often applied or used under conditions beyond our control, ROCK-TRED cannot guarantee anything but the quality of its products. ROCK-TRED warrants that its products meet the specifications set forth by ROCK-TRED, but we reserve the right to change any given specification without prior notice. ROCK-TRED DISCLAIMS ALL WARRANTIES RELATING TO THE PRODUCTS AND THEIR APPLICATION, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Receipt of ROCK-TRED products constitutes acceptance of the terms of this limited warranty and the terms and the conditions set out in our invoice, contrary provisions of buyer's purchase documents notwithstanding. Upon receipt of merchandise, purchaser has 30 days to notify ROCK-TRED in writing that materials are defective. In the event ROCK-TRED finds that the product delivered is off specification, ROCK-TRED will, at its sole discretion, either replace the product or refund the purchase price thereof, and ROCK-TRED's choice of one of these remedies is the buyer's sole remedy. In no event shall the liability of ROCK-TRED exceed the purchase price of shipped merchandise. Claims must be in writing. Claims after 30 days are void. ROCK-TRED will under no circumstances be liable for special, incidental or consequential damages. This warranty supercedes all other guaranties, whether oral or written, and whether expressed, implied or statutory. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Certain products may contain chemicals which may cause serious physical injury. Before using, please read the Material Safety Data Sheet and follow all precautions to prevent bodily harm.