



## ROCK-TRED's DOUBLE BROADCAST Flooring System Installation Guidelines

This tech guide provides a working outline to install ROCK-TRED's CHEM-ROCK Double Broadcast Flooring System in a solid color. The finished flooring system is a nominal 1/8" thick and is highly durable with both high impact resistance and high compressive strength. The finished color can be chosen from any of ROCK-TRED's Standard Solid Colors. The finished texture can be varied from smooth to highly anti-slip depending on the size of the broadcast aggregate. By selecting from available 100% solids finish coatings such as CHEM-ROCK LV/MV/HV and NOVO-POXI the system can be made more or less aggressively textured or chemical/heat resistant. By adding high performance finish coatings such as CHEM-THANE WB Gloss or Matte, CHEM-THANE P-100 or CHEM-THANE 509 the system can be made more abrasion resistant, more chemically resistant and/or more UV resistant.

### Preparation:

Regardless of how the system will be finished we recommend the concrete substrate be mechanically prepared via diamond grinding or shot-blasting to a minimum CSP-2 profile. All non-moving cracks, joints, spalls, etc. should be pre-patched using suitable materials such as POXI-ROCK FLOORING MORTAR, CRACK N PATCH and/or RQP. All joints with any anticipated movement should be prepared and then re-cut after the system is completed and filled to grade with ELASTI-POXI JOINT FILL. Control joints where significant movement is expected may require special treatment. Please call ROCK-TRED for details regarding their treatment.

### Primer:

A primer is recommended to promote adhesion and/or to seal more porous substrates. CHEM-ROCK WB Clear, CHEM-ROCK Primer or POXI-ROCK Primer are all suitable primers, but some are better for certain applications (talk to your ROCK-TRED Representative for information on determining which primer to use). CHEM-ROCK WB is typically applied at 200-250 square feet per gallon. CHEM-ROCK Primer and POXI-ROCK Primer are typically applied at 150 square feet per gallon.

### First Broadcast:

The first broadcast is typically applied using clear CHEM-ROCK LV/MV or ECO-POXI as the seed coat resin installed at 150 square feet per gallon. Broadcast media is then thrown to rejection to completely cover the wet epoxy seed coat leaving no wet spots. Consumption rate of the broadcast sand is approximately ½ pound per square foot. After broadcasting, allow the seed coat to cure and then sweep off and discard any sand that did not bind into the seed coat resin.

## Second Broadcast:

The second broadcast is typically installed using either CHEM-ROCK LV/MV or ECO-POXI as the seed coat resin, but is normally tinted with ½ load of pigment (1/2 of one ROCK-TRED Universal Colorant Bag Pack per 3 mixed gallons of coating). Apply the second seed coat at approximately 80 square feet per gallon directly over the first broadcast and immediately broadcast the aggregate to rejection again using approximately ½ pound of aggregate per square foot. The 80 square feet per gallon coverage assumes you are using broadcast aggregate such as ROCK-TRED PCA323 or PCA322 aggregates. Different aggregate sizes will significantly change the coverage rate of the second seed coat and the topcoat coatings (call your ROCK-TRED Representative for help selecting the correct broadcast aggregate size and for coverage rates on different sizes of media). After broadcasting, allow the seed coat to cure and then sweep off and discard any sand that did not bind into the seed coat resin.

## Locking Top Coat:

The topcoat is typically applied using CHEM-ROCK LV/MV with a full load of colorant (one ROCK-TRED Universal Colorant Bag Pack per 3 mixed gallons of coating) at a coverage rate of 80 square feet per gallon. Again, different broadcast aggregate sizes will change the coverage rate of the topcoat.

*OPTIONAL:* For increased heat and chemical resistance NOVO-POXI can be substituted for the CHEM-ROCK LV/MV. Coverage rate of the NOVO-POXI will be closer to 65 square feet per gallon over PCA322 or PCA323 aggregates due to its thicker viscosity, but application steps remain the same. Use 1 ROCK-TRED Universal Colorant Bag Pack per 2.5 mixed gallons of NOVO-POXI coating.

## *OPTIONAL:* High Performance Finish Coatings

For increased abrasion, heat, stain or chemical resistance, or to create a matte finish, one of ROCK-TRED's CHEM-THANE High Performance Finish Coatings can be applied over the Locking Top Coat. Optional High Performance Finish Coatings include CHEM-THANE WB V.2013 Gloss or Matte, CHEM-TAHNE P-100 polyaspartic coating and CHEM-THANE 509 Gloss or Satin. Each of these coatings has specific features and benefits and different spread rates. Please consult the individual tech data and your ROCK-TRED Representative to help determine which High Performance Finish Coating is best for your installation.