

## Solid Color Floor Coating System for Cool Temp or Fast Cure Applications

### **DESCRIPTION:**

The E-45 System is a solid color epoxy coating system with the ability to cure down to 45°F, or to rapidly cure on jobsites up to 80°F. This system will yield a USDA/FDA acceptable, high gloss finish with good chemical, wear and abrasion resistance. E-45 can be installed from nearly smooth to a very aggressively textured finish depending on the job requirements.

### **RECOMMENDED USES:**

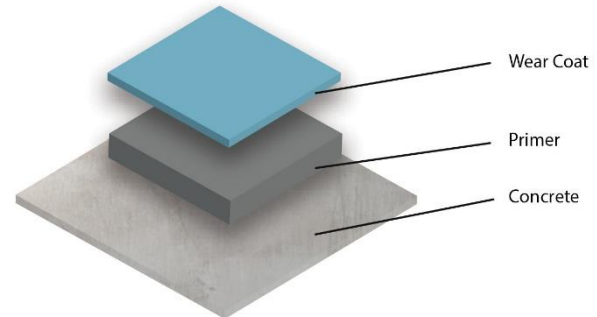
The E-45 System is specified for use as a high-performance flooring system on jobsites where the installation temperature is between 45° - 60°F, or as a fast cure coating system at temperatures between 60° - 80°F. It is intended as a light/medium-duty system for use in industrial, commercial or institutional spaces where a durable, seamless, easy to maintain floor finish is required. Typical applications include cold storage areas, commercial and industrial coolers, food and pharmaceutical processing facilities, cool weather outdoor installations or anywhere a fast return to service solid color coating is required.

### **SYSTEM FEATURES:**

- Ability to cure at temperatures down to 45°F, or as a fast cure system on jobsites between 60° - 80°F.
- High solids, very low odor and VOC compliant throughout North America.
- Available in all 18 ROCK-TRED STANDARD Colors.
- Good chemical, wear and abrasion resistance
- Easy to Clean and Maintain
- USDA / FDA accepted for use in federally inspected facilities
- Easy mixing ratios and application steps

### **BASIC SYSTEM INSTALLATION STEPS:**

1. Condition all materials to be used at cool temperatures down to jobsite temperature. Condition all liquids as well as any broadcast media. Do not allow material to freeze.
2. Prepare substrate according to ROCK-TRED's Surface Preparation Guide. A minimum surface profile of CSP 2 is recommended.



3. Perform any necessary substrate patching using approved ROCK-TRED materials such as CRACK N PATCH Cooler Formula, POXI-ROCK FLOORING LT or ROCK-MENDER and allow to cure. Grind patches flush with substrate and vacuum dust as necessary.
4. Mix and apply a self-priming base coat of CHEM-ROCK LT-45 epoxy in a solid color. Application rate should be between 100 – 135 sq. ft. per gallon.
5. After the primer coat is dry apply a second coat of the same CHEM-ROCK LT-45 in the chosen solid color. Application rate should be between 80 – 135 sq. ft. per gallon depending on desired finished system thickness.
6. If an anti-slip texture is required, white aluminum oxide may be broadcast and back rolled into the final coat of CHEM-ROCK LT-45.

# CHEM-ROCK E-45 SYSTEM DATA SHEET

## SYSTEM COMPONENT PRODUCTS:

- CHEM-ROCK LT-45 for all fluid applied coatings in this system.
- ROCK-TRED Universal Colorant.

## OPTIONAL SYSTEM COMPONENT PRODUCTS:

- Low temperature patching materials such as POXI-ROCK LT FLOORING, ROCK-MENDER or CRACK N PATCH Cooler Formula if rigid substrate repairs are required.
- Broadcast media –selected sizes of white Aluminum Oxide if additional texture is desired.
- CHEM-THANE P-100 as an optional solid color finish coat for added wear protection, or when UV resistance is needed in the system. This coating can be applied at 100 – 135 sq. ft. per gallon in place of the second coat of CHEM-ROCK LT-45, or as a third coating at a rate between 100 – 150 sq. ft. per gallon.

## FOR BEST RESULTS:

- Condition all materials to be used at cool temperatures down to jobsite temperature. Condition all liquids as well as any broadcast media. Do not allow material to freeze.
- DO NOT thin CHEM-ROCK LT-45.
- Only thin CHEM-THANE P-100 with CHEM-THANE P-100 Reducer.
- 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.
- DO NOT overload the Universal Colorants – use recommended loading ratios.
- DO NOT use Universal Colorants C-04 Velvet Blue or C-05 Light Blue with CHEM-THANE P-100.
- 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.

- If installing on jobsites above 60°F plan your work carefully as this material will cure very rapidly in warmer conditions.

## 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:

Installing Rock-Tred Systems on Low Temp Job Sites – Product Installation Tech Bulletin  
CHEM-ROCK E-45 SYSTEM AIA Specification  
Component Tech Data Sheets  
Component Material 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.

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### 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 not withstanding. 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 supersedes 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.

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