

## An Epoxy Mortar Floor Overlay and Resurfacing System

### **DESCRIPTION:**

The POXI-ROCK TD System is a 98% solids epoxy mortar base system with extreme compressive strength and impact resistance top coated with various ROCK-TRED polymer coatings. Our POXI-ROCK FLOORING Mortar forms the base system and is created using our POXI-ROCK FLOORING liquids, which are fortified with VOC compliant trowel glide additives, and a proprietary trowel aggregate. The combination of easy troweling liquids and the special aggregate blend makes it possible to maintain a high resin to aggregate ratio while still allowing an easy trowel application. The POXI-ROCK FLOORING Mortar can be hand or power trowel applied, can be left uncoated or finished with ROCK-TRED topcoats and can be quickly returned to active service.

### **RECOMMENDED USES:**

The POXI-ROCK TD System is specified for use as a high performance flooring system in areas that are subjected to high point loads, heavy rolling traffic, high impact and/or when an existing floor surface requires a restorative overlay. When left uncoated, tinted or natural colored POXI-ROCK Flooring Mortar will provide perpetual slip resistance and excellent durability. When left unsealed it is not able to be mopped clean. Uncoated POXI-ROCK Flooring Mortar is often used in wet industrial processing areas, truck docks, high impact areas in manufacturing plants and other areas where function is more important than appearance. When dressed with finish coatings POXI-ROCK Flooring Mortar becomes the POXI-ROCK TD System. It is intended as a high wear system for use in commercial, institutional or industrial spaces where an extremely durable, seamless, low maintenance, solid color floor finish is needed. Typical applications include manufacturing plants, high traffic aisles in plants and warehouses and areas of heavily eroded or spalled concrete that require restoration rather than replacement.

### **SYSTEM FEATURES:**

- 98% solids, very low odor and VOC compliant
- Very easy to hand or power trowel
- Cost effective system for damaged concrete restoration vs. concrete replacement
- Good chemical and abrasion resistance
- When coated, easy to clean and maintain
- USDA / FDA accepted for use in food retail locations
- 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-3 achieved via shot-blasting is recommended.



2. Perform any necessary substrate patching using approved ROCK-TRED materials.
3. Mix and apply a neat coat of POXI-ROCK Flooring Liquids to the surface to be overlaid at approximately 150-200 sq. ft. per gallon. Do not prime more area than can be overlaid with POXI-ROCK Flooring Mortar before the prime coat cures to a point that is more than tacky.
4. Mix and apply the POXI-ROCK Flooring Mortar into the wet primer. One batch of mortar consists of  $\frac{3}{4}$  mixed gallons of POXI-ROCK Flooring liquids, up to  $\frac{1}{4}$  Bag-Pak of ROCK-TRED Universal Colorant if pigmented mortar is desired and 40-50 pounds of trowel blend PCA324 or PCA323 aggregates. Place using a screed bar or screed box and finish with a steel concrete finishing hand trowel or with a low RPM power trowel fitted with plastic or steel blades.
5. After the mortar course is cured it may be left as is, or dressed with finish coat(s). Some typical finishes include:
  - One coat of POXI-ROCK Dressing applied in a solid color at 100 sq. ft. per gallon. This coating will produce a natural "orange peel" or "ropey", high gloss finish.
  - One grout coat of ECO-POXI or CHEM-ROCK MV applied in a solid color at 100 sq. ft. per gallon followed by one finish coat of CHEM-ROCK LV or MV in a solid color applied at 135-150 sq. ft. per gallon.
  - One coat of ECO-POXI or CHEM-ROCK MV applied in a solid color at 100 sq. ft. per gallon and then broadcast to rejection with PCA322 aggregate at  $\frac{1}{2}$  lbs. per sq. ft. After cure, sweep excess aggregate and apply one finish coat of CHEM-ROCK LV or MV in a solid color at 80 sq. ft. per gallon for an extremely durable floor.

# POXI-ROCK TD SYSTEM DATA SHEET

## SYSTEM COMPONENT PRODUCTS:

- Primer and mortar binder: POXI-ROCK FLOORING Liquids.
- PCA 324 or PCA 323 aggregates.
- Various grouting and finish coats such as POXI-ROCK DRESSING, ECO-POXI, CHEM-ROCK MV and LV.
- ROCK-TRED Universal Colorant.

## 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 control joints, control joints through the POXI-ROCK TD System should be installed. After cutting, the joints can be filled with ROCK-TRED's ELASTI-POXI JOINT FILL permanently flexible sealed joints.
- When installing the POXI-ROCK TD System on mezzanines or other substrates subject to vibrations, or when a waterproofing undercoating is required, a pre-prime of ELASTI-POXI MEMBRANE applied at 65-80 sq. ft. per gallon is recommended.

## FOR BEST RESULTS:

- Do not apply at less than 3/16" thickness.
- Recommended for Interior Use Only unless the POXI-ROCK Flooring Mortar is grouted and finished with solid color CHEM-THANE P-50, P-80 or P-100.
- Batch mixing and mortar placement is easiest using tools such as a Ted Baugh brand Mixer, Toter and Screed Box set.
- For porous or weaker substrates a pre-prime of an appropriate ROCK-TRED primer may be beneficial.
- When placing the POXI-ROCK Mortar ensure there is adequate lighting. Shining lights horizontally across the surface as its being finished will improve the finishers' ability to see unevenness and correct the imperfections during the installation process.

- 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.

## 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-3 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:

POXI-ROCK TD 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 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.

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