

## A High Density, Chemically/Heat Resistant Novolac Flooring System

### **DESCRIPTION:**

The NOVO-POXI CR System is a 100% solids high density polymer broadcast system that can be installed in one more full broadcast lifts at 1/16" - 3/16" thickness. It is designed for areas that will be exposed to elevated temperatures and/or will require broad spectrum resistance to acids, caustics, solvents and other harsh chemicals. By laminating broadcast(s) of quartz aggregate between layers of NOVO-POXI the system is made more durable, impact resistant and the ability to handle heavy traffic is increased. Adding subsequent full broadcast layers of quartz will increase durability, impact resistance and the overall system thickness by approximately 1/16" per lift.

### **RECOMMENDED USES:**

The NOVO-POXI CR System is specified for use as a high performance flooring system in areas that are exposed to chemical and/or elevated dry or wet temperatures. It is primarily used in commercial and industrial settings where a durable, seamless, low maintenance floor finish is required to prevent chemicals from attacking or permeating concrete or when a heat resistant, sealed floor is required. Typical applications include processing rooms in industries as diverse as mining, metal plating, pharmaceutical and commercial laundries as well as secondary containment areas for chemical processing and wastewater treatment. Other applications include battery charging areas, food processing floors, commercial bakeries, hot water wash downs rooms and many more.

### **SYSTEM FEATURES:**

- 100% solids and VOC compliant throughout North America
- Available in all ROCK-TRED Standard Colors
- Excellent broad spectrum chemical resistance and impact resistance when applied as a full broadcast system
- High stain and abrasion resistance, constant dry high heat resistance or wet intermittent exposure up to 200°F.
- Meets USDA / FDA guidelines for use in inspected facilities
- 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 is recommended.



2. Perform any necessary substrate patching using approved ROCK-TRED materials.
3. Apply appropriate clear primer for job site conditions. When a broadcast will be thrown into the primer the recommended ROCK-TRED primers for this system are POXI-ROCK Primer or CHEM-ROCK Primer. Install either at approximately 135-150 sq. ft. per gallon and broadcast PCA322 aggregate to rejection at 1/2 pound per square foot. If there will not be a broadcast into the primer coat CHEM-ROCK PRIMER WB may be used at an approximate coverage rate of 250 sq. ft. per gallon.
4. After primer is sufficiently cured and excess broadcast aggregate (if present) is swept off, apply a broadcast coat of NOVO-POXI with at least 1/2 load of colorant. If applying over a neat coat of primer coverage will be approximately 100-135 sq. ft. per gallon. If applying over a primer coat with a full broadcast of PCA322 aggregate coverage will be approximately 60-70 sq. ft. per gallon. Immediately after back rolling the broadcast coat of NOVO-POXI throw PCA322 aggregate to rejection at 1/2 pound per sq. ft.
5. After broadcast coat is cured, sweep excess aggregate and apply a locking top coat of NOVO-POXI with a full load of colorant at 60-70 sq. ft. per gallon. If additional anti-slip texture is required broadcast and back roll aluminum oxide into the topcoat the amount and grit size to create desired texture.
6. If a nearly smooth finish is desired a 2<sup>nd</sup> topcoat of NOVO-POXI may be applied at 100-135 sq. ft. per gallon after the first topcoat is dry.

# NOVO-POXI CR SYSTEM DATA SHEET

## SYSTEM COMPONENT PRODUCTS:

- Primer: CHEM-ROCK PRIMER or POXI-ROCK PRIMER. Only if the primer is not to receive a broadcast CHEM-ROCK PRIMER WB may be substituted.
- NOVO-POXI
- 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 system should be installed. After cutting, the joints can be filled with ROCK-TRED's ELASTI-POXI JOINT FILL permanently flexible sealed joints. ELASTI-POXI JOINT FILL will not have the same high chemical and heat resistant properties as NOVO-POXI.

## FOR BEST RESULTS:

- Recommended for Interior Use Only unless a sacrificial coating of pigmented CHEM-THANE P-50/P-100 or pigmented CHEM-THANE 509 is applied to block UV.
- When installing NOVO-POXI on an area suspected of having existing chemical contamination in the concrete perform testing such as PH surface testing or infrared spectroscopy and/or ion chromatography after core sampling to determine extent and type of contamination.
- Allow NOVO-POXI to cure at least 48 hours at 65°F prior to exposing to any heat or chemicals. For full chemical resistance allow to cure for at least 7 days at 65°F.
- When applying NOVO-POXI for chemical resistance suggest a color choice based on the type of chemical exposure. For example, nitric acid will stain polymer coatings a brown color so tint the NOVO-POXI C-10 Antler Brown to hide stains. Sulfuric acid will stain polymers red so tint the NOVO-POXI with C-09 or C-12 for best long term appearances.
- Refer to ROCK-TRED's most recent Chemical Resistance Chart or contact ROCK-TRED for questions regarding NOVO-POXI's chemical resistance.

- DO NOT apply NOVO-POXI directly to concrete.
- 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.
- This system is heat resistant, but is not able to withstand thermal shock.
- 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-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:

NOVO-POXI CR 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.

## 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.