

CEMENTITIOUS URETHANE FLOORING SYSTEM

DESCRIPTION: **ROCK-CRETE TR** is a high-solids cementitious urethane flooring system designed for heavy duty, thicker applications. **ROCK-CRETE TR** has a coefficient of expansion similar to that of concrete allowing it to tolerate large temperature swings (thermal-shock) and service exposure to wet and dry temperatures of up to 220°F.

USES: **ROCK-CRETE TR** contains zero VOC's, resists caustics, organic and inorganic acids and many other harsh chemicals. **ROCK-CRETE TR** is ideal for use in food and beverage processing plants and commercial kitchens. **ROCK-CRETE TR** meets USDA/FDA guidelines for use in federally inspected facilities and all VOC/HAPS regulations for use throughout the United States.

TYPICAL COVERAGE: **ROCK-CRETE TR** is to be applied at a thickness of 1/4" – 3/8" per lift. Each **ROCK-CRETE TR** Kit includes one set of Parts A & B Liquids, one 1.5 Jar Unit of ROCK-TRED UNIVERSAL Colorant and TWO bags of Part C TR Aggregate. Approximate PER KIT yield at 1/4" thickness is 52 square feet. Theoretical coverage rates assume an even concrete substrate mechanically prepared to a CSP-3 profile.

- ADVANTAGES:**
- Highly resistant to thermal shock and elevated temperatures
 - High compressive strength and abrasion resistance
 - Very good broad spectrum chemical resistance
 - Self-priming over bare concrete substrates
 - VOC compliant throughout the US
 - Able to be colored using ROCK-TRED Universal Colorants
 - Tolerates up to 6 lbs. per square foot per 24 hours MVTR (Moisture Vapor Transmission Rate)
 - Will tolerate damp substrates during installation
 - Can be left without a finish coat or can be sealed with top coats to meet project specific requirements
 - Can be applied to freshly poured concrete after a minimum 7-day cure time
 - Can be applied via gauge rake in lifts up to 3/8" without trowel finishing

TYPICAL PROPERTIES:

PHYSICAL PROPERTIES	
Mix design	2 Mixed Gallons of Urethane Liquids (Parts A & B) to TWO 45 lb. bags of TR Aggregate (Part C)
Viscosity (mixed)	520 CPS Typical
Solids Content (%)	95% (ASTM D-2697)
Hardness (ASTM D-2240)	80 - 90 (Shore D)
VOC	Compliant with all US Regulations
Application Temps.	50° – 75° F 40° – 50° F (precondition material to 70°F)
Working time	20 minutes @ 75° F
Recoat time	4-6 hours @ 75° F
'Open' to foot traffic	6-8 hours @ 75° F
'Open' to vehicle traffic	12-16 hours @ 75° F
Shelf Life	1 Year in unopened units

RT SERIES 802 ROCK-CRETE TR

LIMITATIONS & FOR BEST RESULT:

- **ROCK-CRETE TR** liquids **WILL NOT** cure properly without the Part C / TR Aggregate added.
- Do not thin this product.
- Do not apply when Humidity exceeds 70% indoors.
- Allow each coat to dry to 'tack-free' or clear prior to re-coat.
- Always apply the next coat within 24 hours of completing the previous application.
- Do not apply this product heavier / thicker than the recommended spread rate / mil thickness.
- As an aromatic urethane ROCK-CRETE products are not very color stability and may discolor and/or "chalk". Discoloration and chalking will not affect system performance. To prevent discoloration and chalking topcoat with a non-ROCK-CRETE finish coat. Call ROCK-TRED for specific details.
- For applications below 50°F PRE-CONDITION the ROCK-CRETE liquids to 70°F prior to mixing/install.
- All cementitious urethane products naturally produce carbon dioxide bubbles during the cure process but are less prevalent in trowel down applications.
- When installing on an incline, sloping or forming cove base up to 10 pounds of PCA322 aggregate may be added per batch to stiffen the material.

PRODUCT MIXING AND APPLICATION:

Empty Part A Base into mixing vessel and add in up to one 1.5 Jar Universal Colorant. Drill mix on low speed with an oval whisk style mixing blade for 1 minute or until a homogenous color results. Add in Part B Hardener and continue to drill mix on low speed for an additional minute. Slowly add in Part C while continuing to mix for an additional minute until mix is homogenous and lump free. Apply by gauge rake or hand trowel followed by a loop roller as needed to remove trowel marks and bring liquids to surface. Broadcast media onto wet material if so desired for texture. ROCK-TRED product test data is based on environmental temperatures of 75°F. Viscosity and working time are always affected by temperatures above or below that mark. When applying product always consider the ambient, surface, and product temperature at the time of installation.

COLOR AND TEXTURES: ROCK-CRETE TR is manufactured in NATURAL and can be tinted in using one 1.5 Jar (1/2 BAG-PAK) of ROCK-TRED UNIVERAL Colorant per mix. ROCK-TRED products are available in a wide range of optional topcoats and textures using an appropriate aggregate. Darker colors appear the most uniform.

CHEMICAL RESISTANCE: Always refer to ROCK-TRED's chemical resistant chart for specific information on each product / system or contact ROCK-TRED directly.

SURFACE PREPARATION: Always apply ROCK-TRED products to a clean / sound substrate that is free of laitance, grease, oils, debris and curing compounds. Make certain that concrete is properly dried and prepared before applying ROCK-TRED materials. Concrete substrates should be treated with ICP's Arizona Polymer Flooring System's Vapor Solve System, followed by a sacrificial 100% solids epoxy coat with a full broadcast course of PCA322/322 aggregate, when moisture testing per ASTM F1869 shows results over 6 lbs. per square foot per 24 hour period. ROCK-CRETE installed over a sacrificial full broadcast coating may not withstand cycles of thermal shock as well as installations anchored to properly prepared concrete. Whenever possible, remove existing coatings and/or flooring systems completely; if complete removal is not possible test to determine adhesion to the existing material. Mechanical preparation by means of shot-blasting or diamond grinding to a ICRI CSP 2/3/5 is the recommended preparation method (see ICRI Guideline No. 03732 for more information). If the substrate is not properly prepared and the appropriate profile is not achieved, failure of the product to adhere to the substrate may occur.

CLEAN UP: Application tools and equipment can be cleaned with soap and water immediately after use or with solvent once the product has begun to cure.

DISPOSAL: Product containers will contain product residue and must be disposed of properly. Label warnings must be observed at all times. All containers must be disposed in accordance with federal, state, and local regulations.

PRODUCT STORAGE: **DO NOT** allow ROCK-TRED products to freeze. All ROCK-TRED products should be properly stored above the floor on pallets or shelves, and in an area that has a constant minimum temperature of 50° F.

IMPORTANT NOTICE: Always read and acquaint yourself with ROCK-TRED's Product Data Sheet, SDS [safety data sheet], and product labels for each individual product prior to mixing and prior to use. For further assistance, product questions, additional information and/or unexpected or unusual installation conditions – contact your Area Sales Representative or ROCK-TRED directly for recommendations. Kit components are pre-measured for optimal performance. Catalyzation errors due to incorrect mixing in the field voids product warranty.

WARRANTY: 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 make your own tests to determine suitability of the product for the particular purpose. As products are often applied or used under conditions beyond our control, ROCK-TRED cannot guarantee anything except the quality of its products. ROCK-TRED warrants that the products meet the specifications set forth by ROCK-TRED, but we reserve the right to change any given specification prior to 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 a ROCK-TRED product constitutes acceptance of the terms of this limited warranty and the terms and conditions set out in our invoice, contrary provisions of buyer's purchase documents notwithstanding. Upon receipt of the 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(s) 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 circumstance, be liable for special, incidental, or consequential damages. This warranty supersedes all other guarantees, 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 that may cause serious physical injury. Before using, please read the Safety Data Sheet and follow all precautions to prevent bodily harm.