

377 TR

Trowel Applied Cementitious Urethane Flooring System

DESCRIPTION

377 TR is a high-solids cementitious urethane flooring system designed for hand trowel application. 377 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

377 TR contains zero VOC's, resists caustics, organic and inorganic acids and many other harsh chemicals. 377 TR is ideal for use in food and beverage processing plants and commercial kitchens. 377 TR meets all of the USDA/FDA guidelines for use in federally inspected facilities.

COVERAGE

377 TR is to be applied at a thickness of ¼”– 3/8” per lift. Each 377 TR (V.2014) Kit includes one set of Parts A & B Liquids, one 1.5 Jar Unit of Tri-Chem Colorant and TWO bags of Part C TROWEL Aggregate. Approximate PER KIT yield at ¼” thickness is 52 square feet. Theoretical coverage rates assume an even concrete substrate mechanically prepared to a CSP-3 profile.

FEATURES

- 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
- Able to be colored with Tri-Chem Colorant
- Tolerates up to 6lbs per sq. ft. of MVTR (Moisture Vapor Transmission Rate)
- Will tolerate damp substrates during installation
- Accelerator available for fast turn needs or for installations from 40° - 50°F
- 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 minimum 7-day cure time

TYPICAL PROPERTIES

Mix Design	2 Mixed Gallons of Urethane Liquids (Parts A & B) to TWO 45 lb. bags of RT Aggregate (Part C)
Viscosity (Mixed)	520 CPS Typical
Solids Content (%)	95% (ASTM D-2697)
Hardness (ASTM D-2240)	80-90 (Shore D)
VOC	0 g/1 (EPA method 24)
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 containers

LIMITATIONS FOR BEST RESULTS:

- 377 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 Tri-Chem 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- Tri-Chem finish coat. Call Tri-Chem for specific details.
- For applications below 50°F PRE-CONDITION the Tri-Chem 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 and up to 1 vial of Tri-Chem Accelerator 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. Tri-Chem 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

377 TR is manufactured in NATURAL and is able to be tinted in using one 1.5 Jar (1/2 BAG-PAK) of Tri-Chem Colorant per mix. Tri-Chem products are available in a wide range of optional topcoats and textures using an appropriate aggregate. Darker colors appear the most uniform.

PRODUCT STORAGE

DO NOT allow Tri-Chem products to freeze. All Tri-Chem 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.

SURFACE PREPARATION

Always apply Tri-Chem products to a clean/sound substrate that is free of laitance, grease, oils, debris, and curing compounds. Concrete substrates should be cured for a minimum of 7 days prior to application of product. 377 TR is designed for application directly to bare concrete. Mechanical preparation by means of a shot-blasting or diamond grinding machine to a minimum CSP-3 profile is the best and recommended preparation method for 377 TR applications. 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.

CHEMICAL RESISTANCE

Always refer to Tri-Chem's chemical resistant chart for specific information on each product / system or contact Tri-Chem directly.

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.

IMPORTANT NOTICE

Always read and acquaint yourself with Tri-Chem's Technical 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 local representative or Tri-Chem 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 Tri-Chem 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, Tri-Chem cannot guarantee anything except the quality of its products. Tri-Chem warrants that the products meet the specifications set forth by Tri-Chem, but we reserve the right to change any given specification prior to notice. Tri-Chem **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 Tri-Chem 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 Tri-Chem, in writing, that materials are defective. In the event Tri-Chem finds that the product delivered is off specification, Tri-Chem will, at its sole discretion, either replace the product(s) or refund the purchase price thereof, and Tri-Chem's choice of one of these remedies is the buyer's sole remedy. In no event shall the liability of Tri-Chem exceed the purchase price of shipped merchandise. Claims must be in writing. Claims after 30 days are void. Tri-Chem 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 that may cause serious physical injury. Before using, please read the Safety Data Sheet and follow all precautions to prevent bodily harm.