

377 D

Cementitious Urethane Topcoat

DESCRIPTION

377 D is a high-solids, matte finish, cementitious urethane coating applied as a finish coat over 377 SL or TR Systems. 377 D has a coefficient of expansion identical to the 377 SL and TR Systems and similar to that of concrete. Like the 377 SL and TR Systems, 377 D will tolerate large temperature swings (thermal-shock) and service exposure to wet and dry temperatures of up to 220°F.

USES

377 D is most often used as a heavy-duty topcoat over 377 TR and SL Systems to make them more durable and easier to clean. 377 D can also be used as a primer to seal porous concrete substrates or as a durable stand-alone coating (two coats for stand-alone applications) where thermal-shock is NOT an issue.

COVERAGE

377 D is to be applied by squeegee and roller. One kit will cover approximately 200 sq. ft. at 15 mils. Do not exceed 15 mils per coat to avoid outgassing bubbles.

FEATURES

- Highly resistant to thermal shock and elevated temperatures when applied over 377 TR or SL Systems
- Applies quickly and easily via squeegee and roller
- High abrasion resistance
- Broad spectrum chemical resistance
- Self-priming over bare concrete substrates
- Can be applied to freshly poured concrete after a minimum 7 day cure time
- Can be applied vertically
- VOC compliant
- Tolerates up to 6lbs per sq. ft. per 24 hours MVTR (Moisture Vapor Transmission Rate)
- Will tolerate damp substrates during installation
- Accelerator available for fast turn needs or for installations from 40° - 50°F
- Satin/lower gloss finish
- Able to be colored using Tri-Chem Universal Colorants

TYPICAL PROPERTIES

Mix Design	2.09 Mixed Gallons of Urethane Liquids (Parts A & B) to ONE 16 lb. bags of Dressing 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/l (EPA method 24)
Application Temps	50° - 75°F 40° - 50°F with Accelerator added
Working Time	20 minutes @ 75°F
Recoat time	4-6 hours @ 75°F

Open to foot traffic
Open to vehicle traffic
Shelf Life

6-8 hours @ 75°F
12-16 hours @ 75°F
1 year in unopened containers

LIMITATIONS FOR BEST RESULTS:

- 377 TR liquids WILL NOT cure properly without the Part C/Dressing 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 thinner / thicker than the recommended spread rate / mil thickness.
- As an aromatic urethane 377 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. Spike rolling helps to release entrapped bubbles, but broadcasting aggregate to rejection will produce a "pin-hole free" finish 100% of the time.
- Do not apply over highly porous substrates as blistering may occur – when necessary to seal porosity prime with 1 coat of Tri-Chem Dressing to seal pinholes prior to SL application.
- Vertical applications and application directly to Tri-Cove may require 2 coats for hide.

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 377 Accelerator while continuing to mix for an additional minute until mix is homogenous and lump free. Apply by squeegee and back roll. Broadcast PCA322 35/50 mesh (or larger) aggregate for texture and to break any bubbles formed during outgassing. 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 D is manufactured in NATURAL and is able to be tinted in select colors using one 1.5 Unit (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.

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.

CHEMICAL RESISTANCE

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

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 D is designed for application directly to bare concrete or directly over 377 SL or TR Systems. 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 direct to concrete 377 D 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.

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.