

CHEM-THANE 509 V.2017

(Lower VOC Version)

TECH DATA SHEET CHEM-THANE 509 V.2017

55% SOLIDS POLYESTER / POLYURETHANE HIGH PERFORMANCE FINISH COAT

DESCRIPTION:

CHEM-THANE 509 is a 2-component, 55% solids water-clear, polyester aliphatic polyurethane. This high-performance CRU produces a high gloss finish and offers high light reflectivity, is non-chalking, and has superior UV resistance. **CHEM-THANE 509** provides superior protection from many chemicals and has excellent abrasion resistance.

USES:

CHEM-THANE 509 is an ideal protective finish coating for applications to ROCK-TRED floor or wall systems. It is an excellent high performance finish coat where color stability is important and where some odor can be tolerated.

TYPICAL COVERAGE:

CHEM-THANE 509 should be applied at an approximate coverage rate of 300 - 425 sq. ft. / gal.

VARIATIONS:

CHEM-THANE 509 is manufactured and normally stocked in 1.0 gallon CLEAR, GLOSS units only. Four Gallon units and ROCK-TRED Standard Solid Colors are available with additional lead time and in minimum order quantities.

ADVANTAGES:

- Superior UV resistance
- Excellent gloss retention
- Highly abrasion resistant
- Remains flexible
- Easy 3:1 mix ratio
- High coverage rate
- Chemically resistant to many non-solvents

TYPICAL PROPERTIES:

PHYSICAL PROPERTIES	
Volume mix ratio	3 to 1 (Resin to Hardener)
Viscosity (mixed)	249 CPS Typical
Solids Content (%)	55% (ASTM D-2697)
VOC	Clear version is compliant to all US Regulations except certain areas of California
Application Temps.	50° – 120°F
Gel time	120 minutes @ 75°F
Dry to Touch (recoat with compatible products)	8 hours (min.) @ 75°F
Through Cure	18 hours @ 75°F
Open for light traffic/use	24+ hours @ 75°F
Shelf Life	1 Year in unopened containers

PACKAGING:

- 1.0 Gallon Unit
- 4 Gallon Unit (*special order with extra lead time*).

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LIMITATIONS & FOR BEST RESULTS:

- Do not thin this product.
- Do not apply when Humidity exceeds 85%.
- Do not allow to puddle during application or during cure. Allow each coat to dry completely prior to re-coat.
- Allow previous coatings of other polymer products to dry completely prior to application of CHEM-THANE 509.
- When re-coating, always apply the next coat between 8 - 24 hours of completing the previous coat.
- Allow for proper ventilation with indirect air flow and keep away from ignition sources. Poor ventilation can lead to solvent entrapment which can inhibit product curing and cause yellowing.
- Do not apply this product heavier / thicker than the recommended spread rate / mil thickness. Product should be applied in thin coats not exceeding 5 mils WFT.
- Do not apply directly to bare concrete.
- This product has broad spectrum chemical resistance, but like all CRU, is not highly resistant to solvents.

PRODUCT APPLICATION:

Apply using brush and ¼" mohair roller or lamb's wool applicator. 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 and place of installation.

COLOR AND TEXTURES:

CHEM-THANE 509 is stocked in 1.0 gallon CLEAR units of GLOSS only. Light Gray C-03 and White C-18 require 7 day lead times, but do not require minimum order quantities. All 4 gallon kits and all other ROCK-TRED Standard Colors require 7 day lead time AND a 30 gallon minimum order.

Most ROCK-TRED products are available in a wide range of textures using an appropriate broadcast aggregate, but aggregate larger than 240 mesh may not remain in CHEM-THANE 509 under traffic. Approximately 1.42 pounds of ROCK-TRED's 240 grit Aluminum Oxide powder may be added into 1 gallon of CHEM-THANE 509 at the time of mixing to increase abrasion resistance and the cured coating's coefficient of friction. Adding AO powder will leave a superfine grain texture in the finish and will reduce light reflectivity. Repeated stirring the product during application to avoid the AO settling and then careful and even application is needed to avoid roller marks when AO powder has been added.

SURFACE PREPARATION: Always apply ROCK-TRED 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 28 days prior to application of product [except as otherwise noted on the individual Product Data Sheet]. Concrete substrates should be treated with the Rock-Block System when moisture testing per ASTM F2170 shows results over 80% RH. Whenever possible, remove existing coatings and/or flooring systems completely; if complete removal is not possible always perform tests to determine adhesion and compatibility to the existing flooring. Mechanical preparation by means of a diamond grinding machine to a minimum CSP-2 profile followed by application of an appropriate ROCK-TRED primer or base system is the best and recommended installation method for CHEM-THANE 509 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 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.