

## Cementitious Urethane Coating 8160 D (Topcoat)

### DESCRIPTION

**8160 D** is a high-solids, matte finish, cementitious urethane coating applied as a finish coat over 8160 SL or TR Systems. 8160 D has a coefficient of expansion identical to the 8160 SL and TR Systems and similar to that of concrete. Like the 8160 SL and TR Systems, 8160 D will tolerate large temperature swings (thermal-shock) and service exposure to wet and dry temperatures of up to 220°F.

### USES

**8160 D** is most often used as a heavy-duty topcoat over 8160 TR and SL Systems to make them more durable and easier to clean. 8160 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

**8160 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 8160 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
- Satin/lower gloss finish
- Able to be colored using Superior Universal Colorants

### PHYSICAL PROPERTIES

<b>Mix Design</b>	2.09 Mixed Gallons of Urethane Liquids (Parts A & B) to ONE 16 lb. bag of Dressing Aggregate (Part C)
<b>Viscosity (mixed)</b>	520 CPS Typical
<b>Solids Content (%)</b>	95% (ASTM D-2697)
<b>Hardness (ASTM D-2240)</b>	80-90 (Shore D)
<b>VOC</b>	0 g/l (EPA method 24)
<b>Application Temps</b>	50° - 75°F



# TECHNICAL DATA SHEET

<b>Working Time</b>	40° - 50°F with Accelerator added
<b>Recoat Time</b>	20 minutes @ 75°F
<b>Open to foot traffic</b>	4-6 hours @ 75°F
<b>Open to vehicle traffic</b>	6-8 hours @ 75°F
<b>Shelf Life</b>	12-16 hours @ 75°F
	1 year in unopened containers

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## LIMITATIONS & FOR BEST RESULTS

- 8160 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 8160 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- Superior finish coat. Call Superior for specific details.
- For applications below 50°F PRE-CONDITION the Superior 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 Superior Dressing to seal pinholes prior to SL application.
- Vertical applications and application directly to Tri-Cove may require 2 coats for hide.

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## PRODUCT MIXING & 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 8160 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. Superior 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.

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## COLOR AND TEXTURES

8160 D is manufactured in NATURAL and is able to be tinted using one 1.5 Jar Unit or ½ of one BagPak of Superior Colorant per kit. Superior products are available in a wide range of optional topcoats and textures using an appropriate aggregate.

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## CHEMICAL RESISTANCE

Always refer to SUPERIOR's chemical resistance chart for specific information on each product / system or contact SUPERIOR directly.

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## PRODUCT STORAGE

**DO NOT** allow SUPERIOR products to freeze. All SUPERIOR 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.

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**SURFACE PREPARATION**

Always apply Superior 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. 8160 D is designed for application directly to bare concrete or directly over 8160 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 8160 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.

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**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.

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**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.

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**IMPORTANT NOTICE**

Always read and acquaint yourself with SUPERIOR'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 SUPERIOR directly for recommendations. Kit components are pre-measured for optimal performance. Catalyzation errors due to incorrect mixing in the field voids product warranty.