

## Thermostable Coating 8160 TR (Trowel Applied)

### DESCRIPTION

8160 TR is a high-solids cementitious urethane flooring system designed for hand trowel application. 8160 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

8160 TR contains zero VOC's, resists caustics, organic and inorganic acids and many other harsh chemicals. 8160 TR is ideal for use in food and beverage processing plants and commercial kitchens. 8160 TR meets all of the USDA/FDA guidelines for use in federally inspected facilities.

### COVERAGE

8160 TR is to be applied at a thickness of 1/8" – 3/8" per lift. Each 8160 TR (V.2014) Kit includes one set of Parts A & B Liquids, one 1.5 Jar Unit of Superior Colorant and TWO bags of Part C TROWEL Aggregate. Approximate PER KIT yield at 1/8" 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 Superior Colorant
- Tolerates up to 6lbs per sq. ft. of 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 minimum 7-day cure time

### PHYSICAL PROPERTIES

Mix Design	2 Mixed Gallons of Urethane Liquids (Parts A & B) to TWO 45 lb. bag of 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 (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

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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.
- 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.

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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 Superior 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. 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 TR 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 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 8160 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.

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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.