

## Moisture Blocker 8127

### DESCRIPTION

**8127 Moisture Barrier**, also known as “Original” or “8127 2K”, is a 100% solids, two-component, high-performance epoxy primer uniquely formulated to effectively reduce moisture vapor emission rates (MVER) through a concrete slab to levels that allow subsequent installation of non-permeable floor finishes. When properly applied to the top side of a concrete slab per ROCK TRED specifications, **8127 Moisture Barrier** achieves a *CLASS I VAPOR RETARDER rating of 0.1 PERM OR LESS* per ASTM E96-14. **8127 Moisture Barrier** meets USDA/FDA guidelines for use in federally inspected facilities and all VOC/HAPS regulations for use throughout the United States.

### USES

**8127 Moisture Barrier** is to be installed as a neat coating directly to properly prepared concrete substrates where moisture vapor drive is suspected or has been identified through testing procedures. **8127 Moisture Barrier** deeply penetrates and bonds into concrete slabs to help lock down moisture and prevent moisture vapor drive from causing blistering or delamination in the floor finish. **8127 Moisture Barrier** is the best primer for most SUPERIOR polymer flooring systems, but can also be used to reduce MVER to levels that allow other floor finishes such as VCT, PVC sheet-goods, carpet tiles, rubber matting, etc. to be installed. **8127 Moisture Barrier CAN BE APPLIED TO PROPERLY PREPARED CONCRETE WITH READINGS OF UP TO 99% RH per ASTM F2170. Contact ROCK- TRED for MVER questions when using ASTM 1869.**

### COVERAGE

**8127 Moisture Barrier** is recommended to be applied in two successive applications of 8 - 12 mils (135 - 200 square feet per gallon) per coat over an ICRI CSP 3 concrete profile to create a fully sealed, pin-hole free finish with a CLASS 1 PERMEABILITY RATING. It is critical that the material be applied evenly and that a PIN-HOLE FREE finish is achieved to provide an appropriate level of impermeability.

### FEATURES

- 100% solids and water clear
- Excellent adhesion
- Easy working, medium viscosity formula
- Independently lab tested and certified by CTL to achieve stated CLASS 1 PERM Rating when used as directed

### PHYSICAL PROPERTIES

Volume mix ratio	Mix Full Kits ONLY
Viscosity (mixed)	700-1000 CPS Typical
Solids Content (%)	100% (ASTM D-2697)
VOC	Compliant with all US Regulations
Hardness (ASTM D-2240)	70-80 (Shore D)
Application Temps	55° - 85°F
Gel Time	10-20 minutes @ 75°F
Dry to Touch (recoat with similar product)	2-4 hours @ 75°F
Through Cure	5-8 hours @75°F
Open for Light Traffic	24 hours @ 75°F
Shelf Life	1 year in unopened units

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## PACKAGING

- 1.5 Gallon BAG-PAK™ Unit (20 unit minimum order for 1.5 gal kit)
- 3 Gallon BAG-PAK™ Unit

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## LIMITATIONS & FOR BEST RESULTS

- Do not thin this product.
- Do not apply when humidity exceeds 70% indoors.
- Allow each coat to dry to 'tack-free' prior to re-coat.
- When re-coating, always apply the next coat within 24 hours of completing the previous coat.
- Always apply as provided and do not tint or fill or broadcast with any material except when patching per the 8127 Product Installation Tech Bulletin.
- Perform a thorough site inspection and perform ASTM F2170 and ASTM F710 to determine the present condition of the slab to be coated.
- 8127 should be used under impervious coatings whenever ASTM F2170 results show 80% RH or greater.
- If slab contamination may be present core sampling and proper core analysis is strongly recommended prior to start of work. Contact SUPERIOR for more information on this process.
- Review and understand the 8127 Product Installation Tech Bulletin prior to applying this system. Follow the instructions provided therein for mixing, application, patching, recoating, etc.
- Shot-blast preparation is recommended. If preparation is performed via diamond grinding and is not thorough enough to reduce surface tension separation of the coating may occur. If separation occurs and cannot be rolled out allow the material to dry, sand the separated area, wipe with acetone and recoat.
- **DO NOT SPLIT KITS – mix the entire unit.**

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## PRODUCT APPLICATION

Apply by brush, squeegee and ½ inch nap roller to create a uniformly thick and pinhole free finish. If air bubbles are seen after the first coat, cut off the bubble and apply material to fill the pinhole or other porous areas prior to applying a second coat. 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 and place of installation.

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## COLOR AND TEXTURES

8127 Moisture Barrier is manufactured in Clear (light straw) ONLY and cannot be field pigmented or broadcast to add texture.

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## CHEMICAL RESISTANCE

8127 Moisture Barrier is not intended for use as a finish coat. Choose an appropriate SUPERIOR finish coating with proper chemical resistance levels if required. Always refer to SUPERIOR's chemical resistant 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 properly cured per ACI 302 and should have reached 98% of its total strength prior to application of product [except as otherwise noted on the individual Product Data Sheet]. Always remove all coatings/floor finishes completely to expose bare concrete. If the substrate is not properly prepared and the appropriate profile is not achieved, failure of the product to adhere to the substrate and perform per specifications may occur. Mechanical preparation by means of shot-blasting to a minimum CSP-3 profile is the best and recommended preparation method for 8127 applications. Shot-blasting is the preferred method of breaking down surface tension on floors that exhibit high RH. Diamond grinding can be employed when shot-blasting is not possible, but the user must take care to ensure that the surface tension has been reduced. Failure to do this can result in areas of separation that resemble fisheyes. This is caused when the material is prevented from penetrating the concrete, or when contaminants such as sealers used in the original curing of the concrete have not been completely removed, or when other contaminants are still present in the concrete. SUPERIOR strongly suggests applying a sample to the prepared concrete to make sure that the surface tension has been reduced sufficiently enough to allow even and full penetration. If separation does appear the contractor must make sure to recoat these areas before continuing with the installation of the specified flooring material.

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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.