

KEY #807 ACRYLIC-URETHANE SEALER

Product Data Sheet



DESCRIPTION

KEY #807 ACRYLIC-URETHANE SEALER is a single component, clear acrylic-urethane copolymer emulsion formulated to create a non-yellowing, protective coating. **KEY #807** provides a tough, UV and abrasion resistant film that protects surfaces from moisture penetration, staining, dirt, dust, wear, and provides a surface that is easy to clean and maintain. **KEY #807** is water-based which makes it an excellent choice for both interior and exterior applications.

KEY #807 is designed to evenly wet the terrazzo matrix and aggregate, “popping” the true color of the epoxy terrazzo matrix and aggregates. The excellent water, alkali, and efflorescence resistance of this product, in combination with its exterior durability and its ability to adhere to a variety of substrates, allow it to be used in many applications. **KEY #807** can also be used to seal concrete, masonry, pavers, brick, Saltillo tiles, or any cementitious substrate.

KEY ADVANTAGES

- UV resistant, stain resistant
- Waterborne, low odor suitable for use in occupied areas
- Meets USGBC LEED criteria for low VOC
- Excellent clarity
- Low maintenance finish
- Fast dry time
- Excellent abrasion and mar resistance
- Seals substrate from moisture penetration

KEY CONSIDERATIONS

- Substrate temperature must be a minimum of 50°F
- Substrate must be free of dirt, waxes, curing agents, and other foreign materials

COLOR SELECTION

Clear only.

COVERAGE

300-600 ft² per gallon depending on surface porosity and/or application method.

CURE/DRY TIME

Dry to Touch	15-30 minutes @ 75°F
Recoat*	1 hour @ 75°F
Light Foot Traffic Service	24 hrs @ 75°F
Full Cure & Max. Resistance	5 Days @ 75°F

*Good air movement and humidity control are necessary for proper drying of waterborne coatings.

CLEAN UP

Clean skin with soap and water. Tools and equipment should be cleaned with xylene or lacquer thinner. Consult Safety Data Sheet (SDS) for safety and health precautions.

APPLICATION

SURFACE PREPARATION

Surface Preparation is the most critical portion of any successful resinous flooring system application. All substrates must be properly prepared as outlined in **Key Resin Technical Bulletin #1**. Work must be performed by trained or experienced contractors or maintenance personnel. The **Key Resin Technical Service Department** is available to answer any questions. All surfaces must be clean and free of loose debris, dirt and dust, grease, oils, curing agents, bonding agents, and cleaning solutions.

MIXING INSTRUCTIONS INSTALLATION

KEY #807 is a single component water based acrylic-urethane sealer. Mix for 1-2 minutes with a low speed electric drill and jiffy mixer, do not mix at high speed or bubbling of the applied film may result. Working life is 2-3 hours at 75°F. Pour mixed material into a paint pan, apply with a lamb’s wool applicator or synthetic microfiber pad using “dip and spread” technique in a figure-8 pattern at a spread rate of 300-600 ft²/gallon depending on porosity of substrate. **IMPORTANT:** Do not apply thicker than 300 ft²/gallon or cure problems may result. Maintain a wet applicator/pad, do not let it run dry or streaks may result. Maintain a “wet edge” on the floor at all times--this may be 5 minutes or less depending on environmental conditions, terminate work at joint edges, taped borders, etc. Re-coat time is approximately 1 hour at 75°F and 50% RH, variable depending on applied thickness and air movement. Good air movement and humidity control are necessary for proper drying with water based sealers. Apply two or more coats or as required to achieve desired finish.

Coverage will vary due to ambient temperature, surface temperature, surface porosity, and/or application methods. Do not apply if surface temperature is below 50°F. Avoid pooling and application to exterior areas that are subject to rain or ponding water. A single coat will seal the substrate to minimize staining while producing a “patina” like finish. Subsequent coats will create a surface film with a higher sheen. Care should be taken to minimize the entrapment of air caused by over-rolling. Two or more coats are recommended for sealing applications.

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TECHNICAL DATA

Mixing Ratio	Single Component
Solids Content	20% Solids by Weight
Volatile Organic Content (VOC) (EPA Method 24)	98 g/L, compliant to low VOC Rule 1113 in all 50 states
Flash Point	None (Setaflash Test)
pH	8.5 – 8.9
Weight per gallon	8.5 lbs/gal
Thinning	No thinning is required. Apply at packaged consistency.

AVAILABILITY

Key Resin materials are available throughout the United States, Canada, and a number of other countries. Contact the **Key Resin Representative** in your area for details.

PHYSICAL PROPERTIES

Abrasion Resistance	ASTM D4060 CS-17 Wheel, 1000 cycles	90 mgs loss
Slip Resistance	ASTM D2047	>0.6 COF wet and dry, meets ADA requirements
Slip Resistance	ANSI A137.1	Dry: 0.56 SCOF Wet: 0.48 SCOF meets ANSI requirements

WARRANTY

Key Resin Company ("Key") warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed, and applied in accordance with recommendations of Key. If any product fails to meet this warranty, the liability of Key will be limited to replacement of any non-conforming material if notice of such non-conformity is given to Key within (1) one year of delivery of materials. Key may in its discretion refund the price received by Key in lieu of replacing the material. No customer, distributor, or representative of Key is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of Key. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. Key reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PURPOSE. KEY'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND KEY SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

CHEMICAL RESISTANCE

ASTM D1308 7 day covered Spot Test

REAGENT	RATING
Ammonia-Hydroxide - 10%	R
Betadine	NR
Citric Acid-50%	R
Coca-Cola® Syrup	R
Diesel Fuel	R
Ethylene Glycol	R
Isopropyl Alcohol	NR
Ketchup	R
Neutral Cleaners	R
Sodium Hydroxide-5%	R
SW-30 Motor Oil	R
Trisodium Phosphate-5%	R
Urea	R
Window Cleaner	R

R - Recommended for isolated spills with proper clean-up before drying
NR - Not Recommended

MAINTENANCE

After completing the application of **KEY #803**, the installer should provide the owner with maintenance instructions. **KEY #803** is easily cleaned with neutral soaps or detergents. Refer to **Key Resin Technical Bulletin #3** and **#3A** for additional recommendations.

TECHNICAL SERVICE

Key Resin Company provides services and consultations on material selection, specification, troubleshooting, and other information on the proper repair and protection of concrete surfaces. **Key Resin Sales/Technical Representatives** are available to assist you. Telephone 888.943.4532 or visit www.keyresin.com.

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