



KINGDOM CONCRETE ACID STAIN

TECHNICAL DATA & APPLICATION INSTRUCTION

PRODUCT DESCRIPTION

Kingdom Concrete Acid Stains are a group of organic colored acid concrete stains. The final brilliant results are unmatched by any other process and leave an antique patina type finish. They react chemically with the mineral content and excess lime of the concrete surface for a deep penetrating permanent stain. All of these stains are UV stable when sealed. Use interior or exterior (Please refer to precautions and limitations on the back of this technical data sheet)
Kingdom Concrete Acid Stains may be diluted up to 1:1 with water.

BENEFITS/FEATURES

10 colors to choose from.
 Acid stained floors are a low maintenance alternative to many popular flooring systems.
 Provides unmatched custom marble-like beauty.

RECOMMENDED APPLICATIONS

Kingdom Concrete Acid Stains are recommended for most cured, unsealed interior and exterior concrete substrates. Do not apply to a floor that has been sealed prior until all sealer has been completely removed.

TECHNICAL INFORMATION

Solids.....0%	Wet Appearance.....Varies Depending Upon Color
Drying Time.....1 - 6 hours	Dry Appearance.....Light Chalky Look
Re-Coat Time.....4 - 24 hours	VOC Content.....0 g/l
Foot Traffic.....Refer to Directions	Blush Resistance.....n/a
Wheel Traffic.....Refer to Directions	Solvent Resistance.....Minimal
Application Temp.....40°F - 85°F	Concrete Adhesion.....Excellent-Chemical Reaction

***Please note that low air and/or concrete temperatures and/or relative humidity may extend drying times. Follow recommended coverage rates for best results.

SPECIFICATIONS/COMPLIANCES

Kingdom Concrete Acid Stains are VOC and OTC compliant in all areas of the United States and many foreign nations.

APPROXIMATE COVERAGE RATES

<u>Application Surface</u>	<u>First Coat</u>	<u>Optional Second Coat</u>
New and Old (unsealed) concrete	150-300 ft ²	150-300 ft ²

*Coverage rates vary depending upon surface porosity and texture, and application method. Excessive build up should be avoided. Please note that product can be diluted up to 1:1 with water yielding double the coverage per actual gallon of stain purchased.

SHELF LIFE

Kingdom Concrete Acid Stains have a shelf life of one-two years in it's original, sealed, unopened container.

PACKAGING

Kingdom Concrete Acid Stains are packaged and stocked in 1 gallon cans (5 gallon pails and 55 gallon drums available)

INSTRUCTIONS FOR USE

Always test the stain in an inconspicuous place. Allow to dry for 4-6 hours. Rinse the test area and observe the color while wet. This will approximate the sealed color.

Flush off the area with water. If there are any oily stains, remove with a degreaser, then prepare the surface with a wash of **Majestic Prep** diluted 1:2 with water. Rinse thoroughly and let concrete dry.

1. Protect all areas not to be stained. Mask off all adjacent surfaces with painter's tape or plastic duct tape. Use a plastic or coated cardboard as a spray shield. Plastic or polyethylene sprayers and buckets are recommended for application.
2. If using multiple colors, always start with the lightest color first as a base coat.
3. Mop, sponge, or spray the stain over the area being colored. Apply at a rate of up to 150-300 sq. ft. per gallon of stain. Always use an acid resistant plastic sprayer.
4. Allow the stain to dry thoroughly, 4-6 hours, and rinse thoroughly with a water and ammonia solution or TSP to neutralize the surface and remove residue. Remove standing water with a wet vacuum.
5. Allow the area to dry over night and seal with a low viscosity sealer such as **Regal Gloss** or an Epoxy Coating such as **Imperial Epoxy**. Please note that on interior floors, our **Cherry Wax** may be used over the coating for added protection. Water based sealers may be used as well.

Please note: Waterborne sealers may be used as well, however, they usually do not enhance the color of the acid stained floor quite as well as Solvent based sealers.

CLEAN-UP

Use warm soap and water. Dispose of containers in accordance with local and federal regulations.

PRODUCT REMOVAL

Kingdom Concrete Acid Stains are chemically reactive concrete stains and can not be chemically stripped. A commercial floor sander, diamond grinder, or another similar mechanical machine is necessary.

PRECAUTIONS AND LIMITATIONS

- ▶ **Kingdom Concrete Acid Stains** can freeze during storage. Storage in area between 50 F and 85 F recommended.
- ▶ All HVAC ventilation ducts should be somehow blocked prior to application so acidic fumes are not distributed.
- ▶ **Kingdom Concrete Acid Stains** are corrosive. Proper protection should be worn during application.
- ▶ It is not recommended to apply **Kingdom Concrete Acid Stains** over carpet, tile, and other types of floor adhesives.
- ▶ Coverage rates depend upon many conditions including application method, surface porosity, applicator, ect.
- ▶ **Kingdom Concrete Acid Stains** was designed for interior concrete and exterior concrete. Read below.
- ▶ Be aware that most green and blue colors of any acid stain brand may blacken in exterior applications.
- ▶ It is recommended to seal over **Kingdom Concrete Acid Stains** with UV Resistant coatings only.
- ▶ **Kingdom Concrete Acid Stains** may be diluted. Note, the higher the dilution rate, the lighter the outcome.
- ▶ Once acid stain is applied to bare, cured concrete, it is permanently there! Please Test prior to use.

SPECIAL NOTES

Please consult Material Safety Data Sheet (MSDS) and read Warranty information prior to use. For color selection, please request a color chart.

Distributed by:

