



VINTAGE AMERICA ACID STAIN

TECHNICAL DATA & APPLICATION INSTRUCTION

PRODUCT DESCRIPTION

Kingdom Products Vintage America Acid Stains are a group of nine natural, organic colored, acid based concrete stains that react chemically with the mineral content and excess lime of the cured concrete for a deep penetrating, permanent stain. Their unique patina type results are unmatched by any other process. **Vintage America Acid Stains** are UV stable* and can be used both interior and exterior. **Ocean and Patina acid stains are recommended for Interior use only as they may blacken over time in exterior applications. Patina has been known to blacken in some interior applications.* These stains can be diluted with up to 8 parts water to lighten the color and extend the coverage, keeping in mind that doing so will lessen the strength of the reaction.

BENEFITS/FEATURES

- 9 rich & beautiful colors to choose from.
- Acid stained floors are a low maintenance alternative to many popular flooring systems.
- Provides unmatched custom marble-like beauty.
- Economical way to finish and beautify garage and basement floors.

RECOMMENDED APPLICATIONS

Vintage America Acid Stains are recommended for most cured, unsealed interior or exterior concrete substrates. **Do not** apply to fresh concrete. **Do not** apply to a sealed surface 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, Until Sealed
Re-Coat Time.....when dry	VOC Content.....0 g/l
Foot Traffic.....Refer to Directions	Blush Resistance.....N/A
Wheel Traffic.....Refer to Directions	Solvent Resistance.....Minimal
Application Temp.....50°F - 80°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

Vintage America Acid Stain are VOC and OTC compliant in all areas of the United States and many foreign nations.

APPROXIMATE COVERAGE RATES

Application Surface	First Coat	Second Coat (optional)
Cured, Unsealed Concrete	400 sq ft (per prepared gallon)	400 sq ft (per prepared gallon)

*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 with up to 8 parts water to extend the coverage.

SHELF LIFE & PACKAGING

Vintage America Acid Stains have a shelf life of one-two years in it's original, sealed, unopened container. **Vintage America Acid Stains** are packaged and stocked in 1 gallon jugs

CLEAN-UP & PRODUCT REMOVAL

Use warm soap and water. Dispose of containers in accordance with local and federal regulations. **Vintage America Acid Stains** are chemically reactive concrete stains that can not be chemically stripped. A commercial floor sander, diamond grinder or other similar mechanical means is necessary to remove.

SURFACE PREPARATION: All new concrete must be **cured** for at least 28 days prior to application. **DO NOT ACID ETCH THE SURFACE.** Any oil stains and adhesives will need to be removed with a degreaser. Any surface contaminants and bond breakers will need to be removed before beginning application. Be mindful when washing and prepping the surface as staining enhances any variations in the finish. **If the concrete is in good condition, has never been treated with sealers or curing agents, is clean and free of dirt & debris AND has cured to a uniform light color, then no extra preparation will be required.** If cleaning is necessary, use a neutral pH cleaner and flush the area with water.

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. Always use an acid resistant plastic sprayer. Do Not Use Any Metal Containers!

DO A SAMPLE: Always test the stain in an inconspicuous place on the actual surface to be stained. Dilute the stain with an equal part water. Apply the stain twice allowing it to dry completely between coats. Allow it to dry completely before removing the residue. Rinse the test area and observe the color while wet. This will be the approximate color once sealed with a solvent based sealer. Neutralize and seal the sample if desired. If the stain does not take, the surface may be dirty, sealed or too heavily aged for the staining process. At that point, additional cleaning, stripping and/or sanding may be required. If the mineral content is depleted, consider microtopping the surface.

APPLICATION: If using multiple colors, always start with the lightest color first as a base coat. Remember, most green & blue colors of any acid stain brand may discolor or blacken in exterior applications. Dilute the stain with an equal part water. Spray the stain evenly and continuously over the entire surface making sure to keep a wet edge and avoid leaving any kind of spray patterns. Do not allow to pool or puddle as it may cause undesirable effects. The edges of puddles will leave very distinctive veining, upon drying. Do not allow stain to drip on the surface. If applying to a pitched or vertical surface, apply from the bottom up, to avoid unsightly drip marks. Allow stain to dry (approximately 4-6 hours) and then apply the stain a second time, if necessary, the same as the first. The stain will form a powdery residue which must be removed after the final application of stain has dried. Scrub the surface with a stiff bristle brush and a neutralizing solution, i.e. ammonia or baking soda diluted in water, to restore the proper pH of the surface. Rinse thoroughly and remove standing water with a wet vacuum or squeegee.

Allow the area to dry COMPLETELY before sealing it with a low viscosity, solvent based sealer such as **Kingdom Products Regal Gloss**. The first coat of sealer generally soaks in substantially & the second coat will even out the finish and the gloss. Our **Cherry Wax** may be used over the sealer coat on interior applications for added protection. Water based sealers may be used as well but Please Note: they usually do not enhance the color of an acid stained floor quite as well as solvent based sealers.

PRECAUTIONS AND LIMITATIONS

- All new concrete must be **cured** for at least 28 days prior to application.
- Acid Stain color charts are a representation only. **Always Test prior to use.** *Ocean and Patina are recommended for Interior use only as they may blacken over time in exterior applications. Patina has been known to blacken in some interior applications
- Acid stains are a reactive product & will yield different results job to job. All concrete is different and the mineral composition and cement & sand colors will all affect the outcome of an acid stain as will the finish of the concrete.
- Acid stain can freeze during storage. Storage in area between 50°F and 80°F is recommended.
- All HVAC ventilation ducts should be somehow blocked prior to application so acidic fumes are not distributed.
- Acid Stain is corrosive. Proper protection should be worn during application.
- It is not recommended to apply acid stain over adhesives (i.e. carpet, tile mastic, etc.)
- Coverage rates depend upon many conditions including application method, surface porosity, applicator, etc.
- **Vintage America Acid Stain** was designed for interior concrete and exterior concrete.*
- It is recommended to seal acid stain with a UV Resistant, solvent-based coating.
- Once acid stain is properly applied to bare, cured concrete, it is permanent! **Always 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. Color Charts are a representation only. **Always Test prior to use.** Kingdom Products is not responsible for the color outcome or any misuse of the product. FOR PROFESSIONAL USE ONLY!