



SLABSTAIN – STAIN BASE & CONCENTRATE

TECHNICAL DATA SHEET

Water-Based Stain Base & Concentrate

PRODUCT ID: SS-401, SS-402, SS-403, SS-404, SS-405, SS-406, SS-407, SS-408, SS-409, SS-410, SS-411, SS-412

PRODUCT DESCRIPTION

SLABSTAIN Water-Based Stain Base & Concentrate is an easy-to-use, deep-penetrating, water-based coloring product that is much safer and easier to use than acid stains. The colors are also consistent and predictable, since this stain does NOT chemically react with the substrate. Inferior-quality, water-based stains often lay on top of the surface and can easily scratch off. SLABSTAIN, however, is formulated with a small particle-size resin and liquid pigments, so it penetrates deeply into the substrate.

This industrial-grade product is suitable for both residential and commercial areas and can be used on a cementitious overlay, as well as straight to concrete, clay pavers, natural porous stone, brick, and block. This product is UV stable, so it can safely be used on both interior and exterior applications without fading or discoloration problems.

SLABSTAIN Stain Base is sold separately from **SLABSTAIN – Stain Color Concentrate**. Add Color Concentrate of your choice into Stain Base and shake before application. Do not add water. Label mixed stain and use later – there is no pot life.

TYPICAL USES

- Concrete, cementitious overlayment, clay pavers, brick, block and natural porous stone.
- Interior and exterior use
- Residential and commercial use

BENEFITS

- UV stable
- Safer than acid stain
- Consistent and reliable color
- Penetrates deep into substrate

LIMITATIONS

- Do not allow stain to puddle.
- On vertical surfaces, stain tends to drip/run. Use less stain and carefully work into substrate with brush, rag, or sponge. • Do not allow stain to puddle.
- Apply with good ventilation. Wear a respirator if needed.
- Since stains are not opaque, this product will not fully cover surface defects.
- Patched/repaired areas may receive more/less stain, due to penetration differences.
- Use a MOTTLED stain effect to camouflage imperfections in substrate (uniform stain effect is not suggested).
- Do not use Stain over previously stained/sealed surfaces that contain epoxy, polyurethane, or silicone, since it will not adhere. Call for more details. Do not use on wood surfaces.
- Do not use on substrate temperature under 50°F.
- Ambient temperature should be at least 60° and rising.

COLORS

- *Earth-Tones*: Moccasin, Santana, Butterscotch, Tuscany, Grizzly, Scoria, Nimbus, Acropolis, Molasses, Glacier, Noir, Stone

PACKAGING

- **Stain Base**: 1-gal and 5-gal
- **Stain Color Concentrate**: 6 oz. (mixes into 1-gal. size of Base) and 30 oz. (for 5-gal. size of Base.)

VOLATIVE ORGANIC COMPOUNDS (VOC)

- 55-58 grams/liter, depending on color.
- Solid Count varies considerably, depending on color.

COVERAGE RATE PER GALLON

- Main Colors: Approximately 300 sq. ft. per gallon
- Highlight Colors: Up to 1000 sq. ft. per gallon.
- As with all stains, coverage rates vary greatly, depending on amount of stain used, desired color,

application technique, weather conditions and characteristics of substrate.

CONCRETE

- **Decorative Stain** is applied to DAMP concrete, so it can be applied immediately after prepping (no standing water.)
- If dry, mist concrete first with clean water (and throughout application if needed.)
- Do NOT dampen concrete for additional layers of stain (first coat only.)
- For a UNIFORM coverage of stain, pour one stain color into a clean, empty 3 or 5 gal. bucket. Use a brush/ broom to work in stain. Apply with long strokes and to only one section at a time, using control joints as a guide. Stain may appear streaked until dry. Apply second coat opposite direction of first once dry.
- For slightly MOTTLED effect, use one color in multiple layers. Sprayers or grout sponges work best.
- For prominent MOTTLED effect, use one light color as a "main" color. Let dry and randomly add one or two darker "highlight" colors.
- Build up layers of stain until desired effect is achieved.
- Typically, using a sprayer will produce only a slightly mottled effect.
- For a prominently mottled effect that mimics acid-stains, sponge in many layers of stain (letting each layer dry completely.)

CLAY PAVERS, BRICK & BLOCK

- Follow same instructions as above, but surface prep may vary, depending on substrate.
- Spraying the Stain is preferred
- For pavers, use wet/dry vacuum to remove all loose sand before applying the **Decorative Stain**.

CHECK CONCRETE MOISTURE

Concrete must be dry before application of this floor coating material. Concrete moisture tests are required, either ASTM F1869 (calcium chloride) or ASTM F2170 (in situ RH probe).

SURFACE PREPARATION

Substrate must be clean, porous, and structurally sound before applying Stain. Surface preparation techniques will vary depending on project area and type/condition of substrate. Remove any loose contaminants and all existing coatings, sealers, curing agents, rust,

efflorescence, and bond-breakers by any of the following methods: surface grinding, acid etching (and neutralizing), scraping, sanding, pressure washing (minimum 3000 psi), sand blasting, shot blasting, wet/dry vacuuming, etching and degreasing. See Technical Data Sheets for more information. Correctly prepared surfaces should be free of ALL contaminants and be porous, meaning water quickly penetrates surface. Call for more info.

If staining CONCRETE, do not produce swirl/grind marks during surface prep, since they will be accentuated once stained. If desired, repair cracks and imperfections: however, leaving them as-is can add more character to the project.

Some cracks are a result of flaws in the concrete pour, problematic soil conditions, or lack of control joints. In these cases, cracks typically reappear.

MIXING INSTRUCTIONS

Shake the pigment pack. Empty pigment container into the SLABSTAIN concentrate jug. Close the lid and shake well, for a period of one minute.

APPLICATION INSTRUCTIONS

- Stain application varies greatly with substrate and desired effect. Stain dries quickly.
- Apply in layers, letting each dry (tack-free) before applying the next.
- For a lighter version of the same color, add less **Stain Color Concentrate to Base** (measure and keep track of ratio) OR first lightly mist substrate with water (or a light Stain color) before applying Stain.
- Always apply LIGHTEST COLOR FIRST when using multiple colors.
- Typically, the first color applied will be the most prominent color.
- Use care when spraying - use a light mist. Do NOT let stain pool.
- Reseal and label partially used containers. Store in shaded/nonfreezing conditions.

APPLICATION RECOMMENDATIONS

- Achieve many colors/effects. Most common applications are a UNIFORM and MOTTLED stain effect. Details below.

- Use a gallon sprayer, spray bottle, “truck wash” brush, clean broom, grout sponge, rag, or brush.
- For CONCRETE: apply first layer (only) to DAMP concrete to prevent streaking.
- For OVERLAY: let dry OVERNIGHT and apply to DRY texture coat. Indoor applications may require more dry time.

POST INSTALLATION

Area should not be exposed to rain (or water of any kind) for at least 48 hours. This may mean watering landscape by hand. Foot traffic after 24 hours. Do not place patio furniture (or other heavy objects) on area for at least 7 days. Wet/damp/cold conditions can extend ALL dry/cure times.

DRY TIMES

Dry times vary greatly with amount of Stain used, substrate characteristics, prepping method, weather conditions, interior vs. exterior, sun vs. shade. Cold, damp conditions lengthen dry/cure times. Each layer needs to be dry/tack-free before proceeding with stain/sealer.

Dry to Touch/Additional Layers of Stain:

Allow stain to dry for a minimum of 4 hrs. Best results are achieved with overnight dry.

SHIPPING AND STORAGE

Ship and store material between 40°F to 90°F (4°C to 32°C). Store in a dry environment and out of direct sunlight.

SHELF LIFE

Shelf life is 2 years from the date of manufacturer, provided the containers are unopened.

CLEAN-UP

Water and mild soap.

DISPOSAL

Refer to SDS & comply with local, state and federal regulations.

WARNING

Consult SDS (Safety Data Sheet) before using product and for the most complete information. Harmful if swallowed. Avoid contact with eyes and skin. Safety eyewear and gloves are recommended. Avoid breathing mist or vapors. Use with adequate ventilation. Use a MSHA/NIOSH approved cartridge-type respirator if necessary.

FIRST AID

INGESTION: Obtain medical attention at once. EYE CONTACT: Flush with clean water for 15 minutes and obtain medical attention. INHALATION: Remove to fresh air and obtain medical attention. SKIN CONTACT: Wash with soap and water. Obtain medical attention if irritation is severe or persistent.

TECHNICAL SUPPORT

For questions, contact a Desert Polymer Flooring representative.

WARRANTY AND DISCLAIMER

Please read all information in the Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. Desert Polymer Flooring Products are for “Professional Use Only” and preferably applied by professionals who have prior experience with the Desert Polymer Flooring Products or have undergone training in application of Desert Polymer Flooring Products. Published technical data and instructions are subject to change without notice. Contact your local Desert Polymer Flooring representative or visit our website for current technical data, instructions, and project specific recommendations.

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