



**SELECTION CRITERIA**

- SASE Dye provides consistent color that penetrates the surface layer deeply, and is reactive with concrete, forming a bond that locks color into slab, minimizing color migration or diffusion.
- Bonds with other SASE Signature Floor System components to protect color in slab.
- Is available in a broad range of vibrant colors.
- Contains UV stabilizer to help protect colorants in concrete against fading.
- Liquid concentrate eliminates 3-hour wait to dissolve dye required by other products.
- VOC compliant (< 40g/L)

**SAFETY PRECAUTIONS**

WARNING – Before using or handling this material, read the Safety Data Sheet and Warranty.

**WARRANTY**

This product is for use by licensed contractors. Since manufacturer does not exercise control of product's use or project conditions, SASE Company, Inc. represents and warrants only that this product is of consistent quality within manufacturing tolerances. NO OTHER ORAL OR WRITTEN REPRESENTATION OR STATEMENT OF ANY KIND, EXPRESS OR IMPLIED, IS AUTHORIZED OR WARRANTED BY SASE COMPANY, INC., INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR THE EFFECTS OR RESULTS OF SUCH USE. SASE COMPANY, INC. WILL NOT BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING DAMAGES FOR DELAYS OR LOST PROFITS. Claims must be made in writing and received within one year from date of product sale to original buyer. Sole remedy shall be replacement of product proven defective.

**OVERVIEW**

Concrete dye concentrate designed for interior diamond-polished concrete. SASE Dye is part of the SASE Signature Floor System designed specifically for coloring and polishing concrete floors. To obtain optimum performance, all components of SASE Signature Floor System, SASE Dye, SASE Densifier, SASE Guard should be used together to lock in colors for long term beauty. SASE Dye concentrate may be diluted in water. Product can be used with densifiers and stain protectors from other manufacturers, however, optimum stain resistance and color retention cannot be assured.

**PRODUCT PROPERTIES**

**COMPOSITION**

SASE Dye is a concentrated liquid dispersion of nano-sized colorant particles. It is designed to be diluted by the user with water, in a ratio of 1:16.

**PROPERTIES**

SASE Dye penetrates concrete surfaces and reacts with the concrete to form chemical bonds between the colorant and the concrete matrix. It contains a UV stabilizer to minimize fading.

**SUSTAINABILITY CRITERIA**

Polished and exposed concrete floors are inherently sustainable because they eliminate the need for applied floor coverings. Exposed concrete floors are very durable, eliminating the need for periodic replacement of applied floor coverings. Along with easy, low-impact maintenance requirements (dry mop, wash with water or mild cleanser) and elimination of waxing and stripping chemicals, exposed concrete has low life-cycle impacts on the environment.

SASE Dye in working solution has <40g/L VOCs. It does not require wet removal of excess or residue, minimizing disposal of pollutants. Reflectivity of polished and high sheen floors may help optimize lighting and reduce illumination-energy consumption. It is shipped as a concentrate to reduce packaging and impacts of transportation and storage.

**LIMITATIONS**

New concrete must cure for at least 28 days before application. Not intended for exterior applications. While in most cases the SASE Dye will extend resistance to color fading or dissipating, due to variables in application, maintenance, and the concrete itself, appearance may change over time.



**PRODUCT PLACEMENT**

**PREPARATION**

**WARNING:** People, property, vehicles, animals, plants, and all surfaces not intended to be dyed should be protected from the product, splash, over spray, and wind drift, using polyethylene sheeting or other proven protective material. If design requires discreet areas of color, mask adjoining areas, lining color edges with painter’s blue tape or similar adhesive masking material. Surfaces, animals, or clothing contacted by dye may be permanently colored.

**SURFACES MUST BE CLEAN AND DRY BEFORE APPLICATION OF THE DYE. NEW SLABS MUST HAVE CURED FOR AT LEAST 28 DAYS BEFORE APPLICATION.**

For best results perform a moisture content test on both newly-poured and existing slabs. Slabs with a moisture content of 5 lbs per foot or less show best performance (calcium chloride test per ASTM F1869). High moisture levels may affect performance of color. Do not apply if concrete is frozen, dirty or has standing water. Test surface absorbency with a light water spray – concrete surface should wet uniformly. If concrete does not wet uniformly, remove any surface contaminants with appropriate cleaning treatment or mechanical process. As used in the **SASE Dye System**, dye is mixed with water. Surfaces should be clean, structurally sound, and free of all foreign materials including sealants, adhesives, bond breakers, curing compounds, curing agents, surface grease and oil, and construction debris. Ground or sanded surfaces should be vacuumed thoroughly. Acid-stained concrete should be neutralized and rinsed before application of SASE dye.

**APPLICATION**

Testing: Prior to starting project, apply SASE Dye to sample area of each type of concrete to be treated, using applications procedures proposed for project. Confirm that concrete is receptive to dye and that color is acceptable.

**Project Conditions:** Ambient temperature during application should be 40-100°F (4-38°C).

**Application Instructions:**

1. Dilute SASE Dye concentrate with water, mixed as directed. Do not dilute SASE Dye with densifiers.
2. Grind up to 200-grit resin bond diamonds. (If not using a 200-grit step, grind up to 100-grit resins.)
3. Remove all dust and debris. If wet cleaning is performed, allow surfaces to dry.
4. Vacuum surfaces thoroughly.
5. Apply SASE Dye to small sample area of each type of concrete to be treated to confirm that concrete is receptive to dye and color is acceptable.
6. Spray a single application of SASE Dye to lightly wet surface without creating puddles. Apply in a consistent, overlapping circular motion, holding the wand approximately 12- 18 inches above the surface. Dye will absorb into concrete more quickly in some places than others. This is normal and does NOT indicate that extra dye is needed.
7. Allow to dry.
8. For water-dye mixtures, clean with water only. This is recommended between color changes and prior to storing the sprayer between jobs.
9. Polish with progressively finer abrasives up to 400-grit resin bond diamonds.
10. Spray second application of SASE Dye.
11. Clean sprayer as in step 8.

12. Remove dye residue with an auto scrubber fitted with a white pad and water. Perform white-rag test to assure that residue is removed. Wipe a dry white rag across the floor. A light tinge of residual color on the rag is acceptable, but any strong color indicates that excessive dye must still be removed.

13. Allow to dry
14. Apply SASE D1 / D2 densifier according to manufacturer’s directions.
15. Continue polishing process 800-grit resins, and 1500-grit or 3000-grit if desired.

**For Stand-Alone Dye:**

**Equipment:** Apply SASE Dye using SWISSMEX or similar low pressure sprayer with conical mist tip with 6.4 gal/hr flow at 40 psi (24.2 L/hr 275.8 kPa).

Mixing Stand-alone Dye: To add color, SASE Dye concentrate can be diluted with water in a 1:16 ratio:

Mix 8 oz (.23 L) SASE Dye concentrate with 1 gal (3.8 L) water.

Mix 32 oz (.9 L) SASE Dye concentrate with 5 gal (18.9 L) water.

Coverage varies depending on concrete mixture, porosity, and moisture content and on ambient conditions. Use test areas to determine appropriate application rate. As a starting point to determine coverage: 400 sf / gal (9.8 m<sup>2</sup> / L)



## • NEXT STEPS

Apply SASE Guard Protect or Protect Plus following manufacturer's instructions to complete protection and enhance appearance. SASE Protect or Protect Plus is strongly recommended for all colored polished concrete to protect color from staining or acidic etching agents, as well as minimizing color loss through diffusion or dispersion. Allow 24 hours for SASE Protect or Protect Plus curing time before burnishing. Chemical resistance gains strength over time. Avoid chemical exposure for first 7 days.

## • MAINTENANCE

Remove dust and debris with microfiber pad or dry mop. Buff dry with high speed burnisher to enhance sheen. Spills of staining agents or acidic etching agents including acidic food substances (e.g. vinegar, pickle juice) should be cleaned up immediately to minimize damage to surface.

Surface should be cleaned regularly using an automatic floor scrubber with SASE Cleaner mixed with water according to manufacturer's directions.

Replenishing Cleaner is a pH neutral formula that will not damage concrete and replenishes the Stain Protector application to maintain liquid and chemical resistance. DO NOT use with acidic cleaners. Auto scrubber should be fitted with non-aggressive cleaning tools such as brushes. Do not perform regular maintenance with aggressive pads such as diamond-impregnated pads or other abrasives. Use of aggressive pads will wear away stain protection and may, in time, wear away color from concrete surface.

Renew SASE Protect or Protect Plus application every two years or more often depending on wear and usage conditions.

## FIRST AID

**Ingestion:** DO NOT induce vomiting. Drink large quantities of water or milk. Seek medical attention immediately.  
**Eye Contact:** Remove contact lenses. Immediately flush eyes for 15 minutes in clear running water; hold eyelids open. Seek medical attention if irritation persists after flushing.  
**Skin Contact:** Wash affected area with soap and water. If irritation persists, seek medical attention.  
**Inhalation:** remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if adverse effect continues after removal to fresh air.

**Warning**  
GHS07



H315: Causes skin irritation  
H319: Causes serious eye irritation

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