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# SureLock™ Concrete Dye

## Chemically Bonding Dyes for Polished Concrete



### Product Description

Ameripolish® SureLock™ Concrete Dye formula has recently been updated making them the most vibrant concrete dyes Ameripolish® has ever produced. Ameripolish® SureLock™ Concrete Dyes are versatile colorants for polished concrete that mix with water or Ameripolish® ColorSolve™. Ameripolish® SureLock™ Concrete Dyes are to be applied just before densifying with Ameripolish® 3D HS or HSL, helping the color penetrate and chemically bond to the concrete. The pre-dissolved concentrate liquid is fast and easy to use. The formula includes UV stabilizers to resist fading as well as a penetrating agent to eliminate further mixing and develop deep, rich color even on hard, dense concrete.

### Features

- Mixes with water or Ameripolish® ColorSolve™ and is VOC compliant
- Consistent, rich penetrating color with UV stabilizers resist fading
- Optionally can be mixed with water
- Liquid concentrate eliminates 3-hour wait to dissolve dye required by other products
- For indoor use only

### Uses

- Coloring concrete; especially designed for diamond-polished concrete
- For optimum performance, use Ameripolish® SureLock™ Concrete Dye with Ameripolish® ColorSolve™, Ameripolish® 3D HS Hybrid Silicate Densifier, Ameripolish® 3D SP Stain Protector, and/or Ameripolish® SR² Penetrating Sealer together to lock in colors for longer lasting protection
- Dye concentrate may be diluted in water

### Dilution & Coverage

**Mixing SureLock™ Concrete Dye:** SureLock™ Concrete Dye can be diluted with ColorSolve™ or water:

Mix the contents within 1 gallon bottle of SureLock™ Concrete Dye concentrate with 1 gallon (3.8 L) ColorSolve™ OR 1 gallon SureLock™ Dye concentrate with 1 gallon (3.8 L) water

Mix the contents within 5 gallon bottle of SureLock™ Concrete Dye concentrate with 5 gallons (18.9 L) ColorSolve™ OR 5

### Product Specification

<b>Application:</b>	Spray & microfiber mop
<b>Appearance:</b>	Various colors
<b>VOC:</b>	Compliant (38 g/L)
<b>Shelf life:</b>	Indefinite

### Packaging Specification

Shipping Wt.	Unit
0.54 lbs.	1 gallon (when mixed)
2.5 lbs.	5 gallons (when mixed)
0.37 lbs.	Sample bottle
4.07 lbs.	Half set of samples (12)
8.88 lbs.	Full set of samples (24)



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gallons SureLock™ Concrete Dye concentrate with 5 gallons (18.9 L) water

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

### Preparation

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

### Application

**Testing:** Prior to starting project apply Ameripolish® SureLock™ Concrete Dye to sample area of each type of concrete to be treated, using application procedures proposed for project. Confirm that concrete is receptive to dye or dye/densifier combination and that color is acceptable.

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

**For SureLock™ System Equipment:** Spray apply Ameripolish® SureLock™ Concrete Dye using low pressure sprayer with Patriot Gray #8 or similar conical mist tip with 8.4 gal/hr flow at 40 psi. (31.8 L/hr at 275.8 kPa), and microfiber pad.

1. Grind up to 200-grit resin bond diamonds. (If not using a 200-grit step, grind up to 100-grit resins.)
2. Remove all dust and debris. If wet cleaning is performed, allow surfaces to dry.
3. Vacuum surface thoroughly.
4. Spray Ameripolish® SureLock™ Concrete 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.
5. For Ameripolish® ColorSolve™ mixtures, immediately upon completion of application, run clear Ameripolish® ColorSolve™ through the pump and wand, followed by clean water. For water-dye mixtures, clean with water only. This

is recommended between color changes and prior to storing the sprayer between jobs.

6. Allow surface to dry.
7. Remove dye residue with an autoscrubber 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. Unremoved dye residue will load resin diamonds and may produce undesirable marks.
8. Spray Ameripolish® 3D HS in an overlapping motion. Avoid puddles. Product does not need vigorous scrubbing-in and will not form a gel. As product is absorbed into surface, apply additional product as needed until floor starts to reject the product. Over-application or puddles of excess material will lengthen drying time, and may produce white surface residue that must be removed immediately.
9. Clean equipment with fresh water before product dries. Overspray on unprotected surfaces should be immediately washed off.
10. Allow surface to dry.
11. Polish up to 400-grit resin bond diamonds.
12. Apply Ameripolish® SureLock™ Concrete Dye again for maximum color, using same method as step 4.
13. Clean sprayer as in step 5.
14. Allow surface to dry.
15. Remove dye residue with an autoscrubber 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. Unremoved dye residue will load resin diamonds and may produce undesirable marks.
16. Polish with 800-grit resins, and 1500-grit or 3000-grit if desired.

Absorption-resistance of densified surface continues to develop over 7 days. However, concrete, even after becoming densified and polished, is still a porous substrate. Densifiers can take 2-6 months to attain full densification.

Ameripolish® SureLock™ Concrete 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 and chemically bonds to Ameripolish® 3D HS Densifier to lock color into the slab.

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### Next Steps

Apply Ameripolish® 3D SP Stain Protector or Ameripolish® SR<sup>2</sup> Penetrating Sealer following manufacturer's instructions to complete protection and enhance appearance. Ameripolish® 3D SP Stain Protector or Ameripolish® SR<sup>2</sup> Penetrating Sealer 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. Chemical resistance gains strength over time. Avoid chemical exposure for first 7 days.

### Cleanup

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 auto-scrubber with Ameripolish® Rejuvenating Cleaner mixed with water according to manufacturer's directions.

Ameripolish® Rejuvenating 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 cleansers. 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 Ameripolish® 3D SP Stain Protector or Ameripolish® SR<sup>2</sup> Penetrating Sealer application every two years or more often depending on wear and usage conditions.

### Storage

- Store upright in safe dry place at 40-105F° (4 -41C°)
- Keep product from freezing
- Keep out of reach of children
- Seal container after use
- Do not mix with other chemicals

### VOC Compliance

In addition, Ameripolish® SureLock Dye offers VOC compliance with low VOC at 38g/L and is also compliant with national, state, and district regulations:

- US Environmental Protection Agency
- California Air Resources Board SCM Districts\*
- South Coast Air Quality Management District
- Maricopa County, AZ
- Northeast Ozone Transport Commission

\*Before application, verify product conformance with local and state codes.

### Warning & Safety Information

**KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY. BEFORE USING THIS PRODUCT PLEASE READ THE SAFETY DATA SHEET IN ITS ENTIRETY! Safety Data Sheets (SDS) can be found online at [www.ameripolish.com](http://www.ameripolish.com) or upon request by contacting Ameripolish at 1-800-592-9320.**

People, property, vehicles, animals, plants, and all surfaces not intended to be dyed should be protected from the product, splash, overspray, and wind drift, using polyethylene sheeting or other proven protective material. If design requires discreet area 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.

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.

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Ground or sanded surfaces should be vacuumed thoroughly. Acid-stained concrete should be neutralized and rinsed before application of dye.

### Warranty

The information contained herein is believed to be reliable. This information is based on laboratory testing and results. Because of variations in methods, conditions and equipment, each user must test this product to make a judgment of performance. Applicator is responsible for testing material for effectiveness and performance. Manufacturer obligation is limited to the refund of purchase price or replacement of material if proven to be defective. 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.