



TECHNICAL DATA SHEET

WATER-BASED CONCRETE DYE

AMERIPOLISH water-based dye has been created to complement and expand on the already proven AMERIPOLISH solvent-based dye. As with the Solvent-based dye, the water-based dye is formulated using extremely fine molecules of color designed to penetrate and color cementitious surfaces (All bond barriers must be removed prior to application of dye). The Water-based dye was created for use when 1) flammability is a concern, 2) adequate airflow cannot be assured, and 3) the dyes are to be used around fresh meat, vegetables and fruit. Please note that while the water-based dyes will penetrate most concrete floors, there may be floors that retain some bond barrier, or are too tight, for the Water-based dye to penetrate, while the Solvent-based dye still might. In addition, due to the increased dwell time of the Water-based dyes, it is not recommended to use them on stencils without pre-testing the integrity of the stencil adhesive, or bleeding may occur.

AMERIPOLISH dyes were created for use with polished concrete, but may be used as a base color or touch up for concrete that has received integral color, dry shake hardeners, acid stains or even as an overlay to itself. Prior to starting your project, always apply the dye to a sample area at the actual site in order to confirm that the floor is receptive to the dye and to establish the desired color.

REMEMBER that dyes will not mask or hide imperfections in the floor and may appear different in areas that have received different pours or patches.

NOTE: AMERIPOLISH dye is for interior application only. Color will fade over time in areas where the dye is exposed to frequent UV light. The quality of UV protection in windows and doors may also determine the amount of time it takes before color must be re-applied.

1. Explanation: AMERIPOLISH water-based dye is packaged in liquid form to be mixed with water by the customer. AMERIPOLISH dye is offered in 22 standard colors. Custom colors are available for an additional fee and minimum order. Be aware that paint colors that contain a white base cannot be replicated. Dye colors can be combined to create an unlimited number of color variations. When applied properly, AMERIPOLISH dye adds great color to polished concrete floors, or it can produce a look similar to an acid stain with a sealer. Anytime that AMERIPOLISH dye is used on a process other than polished concrete a sealer is required. This brightens the color and helps to retard color fading over time – contact AMERIPOLISH for questions concerning applications with topical sealers. The AMERIPOLISH PROGUARD™ STAIN SHIELD, an impregnating sealer, should be applied to provide added protection against oil and water-based spills and stains on all colored and polished floors. Concrete, even after becoming densified and polished, is still a porous substrate, and all densifiers require 2-6 months to attain full densification.

2. Benefits:

- No flammability or combustibility issues
- Large selection of vibrant colors
- Extremely easy to apply
- Can be applied to most any cementitious surface
- Packaged in liquid form and is easily shipped and stored

3. Mixing: AMERIPOLISH water-based dye is packaged in liquid form in 6 oz. sample bottles, or pre-measured amounts to be mixed with water for 1 gallon or 5 gallon increments. For the sample bottle, simply add water so that the combined dye and water fills to the 6oz. level of the glass jar. For the 1 gallon and 5 gallon sizes, simply pour the contents of the bottle into the appropriate sized empty container, then fill to top with water. ie. For the 1 gallon amount, pour the contents of the dye solution for the “1 gallon” dye bottle into an empty

gallon container, then add enough water to create a mixed gallon of dye (128 ounces). Once you have mixed the dye in the appropriate container, it is ready for immediate use. **NOTE: DO NOT ADD AMERIPOLISH PENETRATING AGENT TO WATER-BASED DYE, AND THERE IS NO 3 HOUR DWELL TIME AS WITH THE SOLVENT-BASED DYE.** Wear protective gloves and safety glasses when mixing, and protect finishes from spills.

4. Polished Concrete Application: SURFACES MUST BE CLEAN AND DRY BEFORE APPLICATION OF THE DYE. NEW SLAB 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. High moisture levels may affect performance of color.* Protect all adjacent surfaces that are not specified to receive the dye, as the dye will also penetrate adjacent concrete, masonry or wood finishes. Use masking materials that will not be affected by the acetone in order to keep the dye from bleeding between surfaces. The dye is best applied with the PATRIOT SpraySafe™ System's CO₂ sprayers (www.patriotsprayer.com). It is recommended that only a conical tip be used as a fan tip can leave a linear pattern from the dye application. A consistent spray coverage and pattern are best achieved when using a pre-set ceramic insert conical tip and constant pressure. Maintain a container or bucket in the application area to store the tip and wand in between applications. In order to achieve the maximum life of your sprayer, immediately upon completion of your dye application, run clear acetone through the pump and wand, followed by clean water. This is recommended between color changes and prior to storing the sprayer between jobs.

CAUTION: TAKE CARE IN MIXING, TRANSPORTING AND APPLYING THE MIXED DYES AS DRIPS OR SPILLS CAN BECOME PERMANENT. The dye particles are susceptible to air movement-protect all surfaces or equipment from dye drift.

5. ALWAYS APPLY DYE IN A SMALL TEST AREA TO CONFIRM COLOR ACCEPTANCE ON YOUR PROJECT SLAB.

Use necessary polishing steps to bring the slab up to 200 grit resin level prior to dye application. Upon completion of 200 grit resins, apply the dye in a consistent, overlapping circular motion, holding the wand approximately 12- 18 inches above the surface using a compatible sprayer and green tip. Wait 1-2 minutes for the dye to dry.

Always clean after each application of dye using an auto scrubber, white pad, and water. Perform a white rag test after cleaning to see if dye has been removed from the surface by wiping the rag firmly on the slab and checking to see if significant dye is on the rag. If so, clean until there is no residual dye on the surface. This cleaning process is necessary after each application of dye.

Residual dye can bond to the resins and scuff or mark the floor. If the color penetrated the concrete and all residual dye has been removed from the surface, you may proceed with the application of densifier. Application of dye prior to densification may help lock the color into the slab.

Normally, an additional dye application is required to achieve the desired color. Apply the second application after 400 grit resins using the same process as described in the first application of dye above (after 200 grit resins). Always follow the last application of dye with cleaning and and one or more passes with resin diamonds.

TWO NOTES:

A. For concrete slabs that are very porous, the characteristics of the water-based dye may allow the dye to penetrate so deeply below the surface, that color may appear faded and light. The suggested remedy in this situation is to grind through the 100-grit resin, apply your densifier, perform the 200-grit resin, and then proceed with your standard application of water-based dye. The densifier will create a tighter surface to apply the dye to. Your test application should alert you to the need to perform this sequence. Sequencing: Densify / 200 grit resin / apply first dye application / scrub & clean floor / 400 grit resin / scrub & clean / additional densifier application is optional.

B. Some concrete slabs may promote initial spider webbing or separation of the dye. In these situations, after applying the water-based dye, and when the slab is still completely wet, re-distribute the dye with a Quickie pad to promote even coverage of the dye on your slab. Wear “spiked” shoes when walking in wet dye.

6. Stain protection: PROGUARD™ STAIN SHIELD was formulated for compatibility with the dyes, and is recommended for protection of all dyed concrete; especially in areas that will be exposed to foods or oils to provide additional water and oil-stain resistance. Read the PROGUARD™ STAIN SHIELD Technical Data Sheet prior to application.

ALWAYS USE A NEUTRAL CLEANER WHEN SCRUBBING OR CLEANING PRO-GUARD STAIN SHIELD. ADC offers **EnhancerPro Conditioning Cleaner**, which is a neutral cleaner that also contains silicate that can fill in scratches over time. Non-neutral cleaning products contain chemicals that can attack the Pro-Guard Stain Shield and cause streaking and, if they come in contact with the dye, may produce a faded dye appearance. ALWAYS USE A NEUTRAL CLEANER.

Pro-Guard Stain Shield must be re-applied periodically based on the wear of the floor. The floor must be clean and dry to re-apply Stain Shield. Review the Pro-Guard Stain Shield Technical Data Sheet found in the Downloads section at www.ameripolish.com for installation instructions. ADC always recommends that a stain shield product be installed and maintained in conjunction with dyed polished concrete.

7. Coverage Rates: AMERIPOLISH coverage rates will vary significantly from floor to floor based on the roughness of the concrete, the porosity and the mix design. Expect approximately 400 square feet per gallon for your first application, and 500-600 square feet for each additional application. Sprayer and tip design can lead to wasted dye and an inconsistent appearance. Dye is being sprayed too heavily if puddles are present.

8. OPTIONAL-Additional Dye Application: For further enhancement of your dye color, you may apply an additional application of dye following the completion of your polishing steps, and prior to your PROGUARD™ STAIN SHIELD application. Apply and clean the dye according to the information in steps 5 and 6, then once the floor is dry, proceed to step 9.

9. Moisture Vapor: Moisture Vapor Drive may take dye further into the concrete producing a faded appearance. Moisture content testing is recommended. Slabs with a moisture content of 5 lbs per foot or less show best performance. High moisture levels may affect performance of color.

10. Floor Protection: If the floor work is not the last step to be performed prior to project turnover, then protect the floor following completion of your scope of work with a breathable covering such as kraft paper.

11. Safety precautions: WARNING – Before using or handling this material, read the Material Safety Data Sheet and Warranty. Always wear a carbon filter respirator, eye protection, and chemical resistant gloves. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

12. Warranty: This product is manufactured only for use by trained and licensed contractors and installers who have been trained in the proper use of the material. The manufacturer guarantees that the product will be of consistent color and mixture when received. The manufacturer has no control over the use of this product; therefore, no warranty, expressed or implied, is or can be made to either the effects or results of such use. In any case, the sellers and manufacturer's obligation under this warranty shall be limited to refunding the purchase price or replacing material proven defective.

13. Health Cautions: AMERIPOLISH concrete dyes are applied in a fine mist. Always provide plenty of ventilation.