

Penetrating Agent Technical Data Sheet  
**AmeriPolish Polished Concrete Dye System**

The AmeriPolish solvent-based dye is formulated using extremely fine molecules of color designed to penetrate and color any cementitious surface (All bond barriers must be removed prior to application of dye). AmeriPolish dye was created for use with polished concrete, but can 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.**

The addition of the **EnhancerPro™ Series Penetrating Agent** is an integral component of the AmeriPolish System.

**1. Explanation:** The EnhancerPro™ Series Penetrating Agent has been formulated to increase your options of adding color to polished concrete. The manner in which the AmeriPolish solvent-based dyes penetrate the concrete is through the use of acetone as the carrying agent. Acetone's benefits are its ability to take the dyes completely into solution, and to then drive them into the concrete surface as the acetone "flashes". Due to the tight structure of polished and densified concrete, in addition to the constraints of hot weather, the dyes do not always have enough time to penetrate the surface before the acetone flashes. With the addition of the Penetrating Agent, the acetone flash is delayed from 7-8 seconds, to 30+ seconds. This generally provides the necessary window of time for the dyes to penetrate. Additionally the Penetrating Agent, in many cases, will provide the opportunity to add color to floors which have already been densified and polished. AmeriPolish recommends the use of Penetrating Agent on all floors, EXCEPT very porous floors, or when the dye is being applied over a stencil (The extended time that the acetone is in contact with the stencil could cause adhesive release and dye bleed)

**2. Benefits:**

- Extends the opportunity to apply the full selection of AmeriPolish's 23 vibrant colors
- Extremely easy to use—simply add 4 oz. to a pre-mixed gallon of AmeriPolish solvent-based dye.
- Can be applied to any cementitious surface
- Packaged in 20 oz. bottles that can be shipped by ground or air.

**3. Mixing:** The **EnhancerPro™ Series Penetrating Agent** should be added to the mixed dye in all instances, EXCEPT when coloring very porous concrete, or applying dye around stencils where the acetone could cause adhesive release and dye bleed. The Penetrating Agent is added 4oz to the mixed gallon on dye. It can be added anytime in the mixing process; either at the initial mixing of the acetone and dye, or just prior to dye application. Gently shake or stir the dye mixture immediately prior to application. Wear protective gloves and safety glasses when mixing.

**4. Application: Follow Dye Application Instructions as provided on the Solvent-based Dye Technical Sheet.**

**SURFACES MUST BE CLEAN AND DRY BEFORE APPLICATION OF THE DYE.** Protect all adjacent surfaces that are not specified to receive the dye, as the dye will also penetrate adjacent concrete, masonry or wood finishes.

**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. Cleaning: Follow Dye Cleaning Instructions as provided on the Solvent-based Dye Technical Sheet. You may now proceed with the application of your densifier and final polishing steps. Follow the application instructions of your densifier manufacturer.**

**6. Coverage Rates:** The Penetrating Agent promotes the ability of the dyes to penetrate the floor, but does not change the dye 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.

**7. OPTIONAL-Additional Dye Application:** The Penetrating Agent provides the opportunity, on many floors, to add additional color to densified and polished floors. For further enhancement of your dye color, you may apply an additional application of dye following the completion of your polishing steps. Follow the information in the **Solvent-based Dye Technical Sheet.**

**8. Always apply dye prior to application of Impregnator Application: 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.

**10. OPTIONAL- Crystallization:** Crystallization may be utilized to further enhance the colors and protection of the floor. It is recommended that you use either a high-speed burnisher with a Gorilla Lite pad, or a 175-rpm floor machine with steel wool. Apply following the application of the ProGuard™ Stain Shield.

**11. 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.

**12. Safety precautions: WARNING** – Before using or handling, read the Material Safety Data Sheet and Warranty. AmeriPolish concrete dyes are highly flammable when mixed with acetone. Great care should be taken when using this product! Acetone will produce vapors that are highly flammable and can be harmful to the applicator's health. Make sure rooms are properly ventilated. Open windows and use fans to achieve air movement. Non-explosive exhaust devices may be required in areas with poor ventilation. Make absolutely certain no source of open flame is present. Pilot lights, heaters, cigarettes, and electric tools should not be used or turned on until all vapors have dissipated. Always wear a carbon filter respirator, eye protection, and chemical resistant gloves with Ameripolish dye. Devices are available to measure acetone vapors. KEEP OUT OF REACH OF CHILDREN. DO NOT TAKE INTERNALLY.

**13. 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.

**14. Health Cautions:** AmeriPolish decorative concrete dye is highly flammable when mixed with acetone. Always provide plenty of ventilation when applying the dye. Vapors may cause flash fires. No open flames may be present. Electrical tools, pilot lights, heaters, and cigarettes should not be used if fumes are present. Devices are available to measure acetone vapors.

\* It is important to note, that as of 2/01/06 the United States Environmental Protection Agency's June 16, 1995 volatile organic compounds (VOC) classification for acetone remains in effect. The EPA has granted acetone VOC-exempt status. In addition, acetone is not a hazardous air pollutant (HAP) under the Clean Air Act Amendment of 1990. Most states, such as California, follow these federal guidelines. Please check with your individual state if the question arises.

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