



## TECHNICAL DATA SHEET

### SOLVENT-BASED CONCRETE DYE

**DYE-N-SEAL® dye** is for professional decorative concrete installers. The product was formulated using extremely fine molecules of color designed to penetrate and color most interior concrete surfaces. DYE-N-SEAL® dye can be used as a stand alone color application on concrete or can be used as a base coat prior to acid staining concrete in order to add color to problem areas that will not react to acid stain. Also, it can be used after acid staining to add color to problem areas that will not react to acid stain.

**NOTE:** DYE-N-SEAL 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.

*Concrete Slabs with high moisture content may adversely affect AmeriPolish dye. Application of densifier prior to application of dye may reduce the effect of moisture vapor on AmeriPolish dye.*

**1. Explanation:** Dye-N-Seal® solvent-based dye is packaged in powder form to be mixed with acetone and the Penetrating Agent by the customer. DYE-N-SEAL® dye has 32 standard colors. Dye colors can be combined to create an unlimited number of color variations. When applied properly, DYE-N-SEAL® dye gives great color to produce a look similar to an acid stain in approximately 1/3 the amount of time.

#### **2. Benefits:**

- Large selection of vibrant colors
- Extremely easy to apply
- Can be applied to most interior concrete surfaces
- Packaged in dry form for easy shipping and storage
- Unlimited shelf life in powder form.

**3. Mixing:** DYE-N-SEAL® dye is packaged in powder form in bottles to be mixed with 1 gallon or 5 gallon increments of acetone. Empty dye into 1 gallon or 5 gallons of acetone depending on the size of dye bottle purchased. Pour 4 ounces of Penetrating Additive into 1 gallon of acetone, or 20 ounces of Penetrating Additive into 5 gallons acetone and shake well for approximately 30 seconds. Let dye dissolve for three hours. The Penetrating Additive is not recommended with vertical applications, stencils, or logos in order to reduce runs and bleeding.

**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.*

**4a. Application (When Sealing):** No curing or sealing agents may be present prior to applying dye. Curing and sealing agents must be removed in order for dye to penetrate the concrete. Concrete must be clean and dry before applying dye. Always apply dye in a small test area to confirm color and to determine concrete porosity. Apply dye with the PATRIOT 350 or 500 SpraySafe System or an acetone compatible sprayer using the grey #8 tip. Spray uniform application of dye and avoid puddling (the concrete should look wet for a few seconds with proper application). Keep tip approximately 24 inches above the surface of the concrete, and apply using a circular motion. Dye will dry in approximately 1 minute.

**4b. Application (When Polishing):** When using DNS in conjunction with concrete polishing, apply after 400 grit resin. A second application of dye may be applied prior to the last cycle of resins.

**NOTE:** *Residual dye adheres very tightly to the surface; neglecting to clean the residual dye properly that did not penetrate the concrete can act as a bond breaker between the concrete and the topical sealer.*

**Residual dye** remaining on the surface after each application must be removed prior to sealing. The best method of residual dye removal is with an auto scrubber and white pad with water. A swing buffer and vacuum may be used if an auto scrubber cannot be used. The cleaning process does not take long and the concrete will generally dry quickly.

**5 Sealing with Topical Sealer:** Use the Patriot 500 SpraySafe System with the #6 Red Spray Tip, apply the first coat of sealer using DNS 400 Sprayable Sealer. Always follow local, state, and federal laws when applying sealer. Apply two coats of DNS Floor Finish. Note: It is important to spray the coat of DNS 400 Sprayable Sealer to prevent reactivation of the dye.

**6. Stain Shield Application (When Polishing):** Using the Patriot 500 SpraySafe sprayer system with the #6 Red Spray Tip, apply the first application of PROGUARD STAIN SHIELD. Allow to dry and apply second application.

**ALWAYS USE A NEUTRAL CLEANER WHEN SCRUBBING OR CLEANING PROGUARD 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](http://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:** DYE-N-SEAL® coverage rates will vary significantly from floor to floor based on the roughness of the concrete, the porosity and the mix design. Depending on the type of sprayer and the tip size, on regular concrete and most cementitious products expect 400-600 square feet per coat per gallon. Avoid excessive puddling to maximize coverage rate.

**8. 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.

**9. Safety precautions:** CAUTION – DYE-N-SEAL® 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 large 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 when using DYE-N-SEAL® dye.

**10. Warranty:** The manufacture 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 affects 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.

**11. Health Cautions:** DYE-N-SEAL® decorative concrete dye is highly flammable only 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.