



## TECHNICAL DATA SHEET

### WATER-BASED CONCRETE DYE

DYE-N-SEAL water-based dye has been created to complement and expand on the already proven DYE-N-SEAL 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.

DYE-N-SEAL dyes 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: 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.

1. Explanation: DYE-N-SEAL water-based dye is packaged in liquid form to be mixed with water by the customer. DYE-N-SEAL dye is offered in 32 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 DYE-N-SEAL dye gives great color and can produce a look similar to an acid stain with a sealer.

#### 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 for easily shipped and stored

3. Mixing: DYE-N-SEAL water-based dye is packaged in liquid form in 6 oz. sample bottles, or in quantities pre-measured 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 6 oz. level of the glass jar. For the 1 gallon and 5 gallon sizes, 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 the dye is mixed in the appropriate container, it is ready for immediate use. There is no 3-hour dwell time as with the Solvent-based dye. Note: Do not add PENETRATING AGENT to Water-based dye. Wear protective gloves and safety glasses when mixing, and protect finishes from spills.

NOTE: 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.

4. Application: 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. Use proper masking materials in order to keep the dye from bleeding between surfaces. Dye is best applied with the PATRIOT SpraySafe™ System's CO2 sprayers using the green #4 tip (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 water through the pump and wand. 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.

NOTE: 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 Quick-ee pad to promote even coverage of the dye on your slab. Wear "spiked" shoes when walking in wet dye.

6. Cleaning: Following your last dye application, it is mandatory that you clean the floor using water, a scrub brush, and a vacuum. DYE-N-SEAL recommends using an auto scrubber and a soft brush or pad as the most effective method. If you do not have an auto scrubber, the use a low speed floor buffer with brush or pad, a pump sprayer for water, and a wet/dry vacuum to remove the solution, as the next best option. Thorough scrubbing with water is required to effectively remove the residual dye. During your initial cleaning, expect a small amount of residual dye to release from the concrete, as residual dye that did not penetrate the concrete will remain on the surface of the concrete. Clean the floor until the rinse water is clear, vacuuming up all rinse water. As you become more experienced with the dye application, and how much is required for a particular floor, the amount of residue will be reduced.

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. 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. If puddles are present, dye is being sprayed too heavily.

8. 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.

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. 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.

13. Warranty: This product is manufactured only for use by 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 seller's and manufacturer's obligation under this warranty shall be limited to refunding the purchase price or replacing material proven defective.

14. Health Cautions: DYE-N-SEAL decorative concrete dyes are applied in a fine mist. Always provide plenty of ventilation.

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