

## ENDURABLE CONCRETE DYE

Endurable Concrete Dye is a versatile dye for use in conjunction with concrete polishing. The colors are vibrant and easy to apply. There are 12 available colors from which to choose.

### ADVANTAGES

- Product may be mixed in water, acetone, or denatured alcohol
- Product may be used immediately after mixing into carrying agent (does not require wait time - unlike powdered dyes)
- High coverage rates of 400 - 600 square feet per gallon
- Product goes completely into solution, allowing deepest penetration, making this product the perfect solution for polishing
- Concentrated to optimize shipping costs and shelf space
- Vibrant color options offer various looks

### WHERE TO USE

Low UV resistance limits this product to interior use only. For all exterior projects, use Endurable Concrete Stain.

### PACKAGING

Product is packaged as a liquid concentrate.  
Available in 1-gallon and 5-gallon concentrates.

### TEST AREA

Performing a test area is advisable to make sure the product is suitable for your surface.

## COVERAGE RATES

### INTERIOR SURFACES

400 - 600 square feet per gallon depending on porosity of surface and level of preparation

## PRODUCT AVAILABILITY

Product is available at retail distributors around the world. Visit the Endurable website to find the nearest distributor.

## REGULATORY INFORMATION

VOC CONTENT - <10 g/L when mixed in water

### LEED

At less than 10 g/L of VOC content when mixed in water, product contributes towards LEED certification.

## PREPARATION

The concrete should be free from contamination. Clean the surface with Endurable Surface Cleaner. Please refer to the technical data sheet for application instructions of the Endurable Surface Cleaner.

**ACIDIC OR ALKALINE CLEANERS AND ETCHING PRODUCTS ARE NOT RECOMMENDED. IMPROPER pH CAN AFFECT THE DYE.**

Determine if the concrete is porous with a simple water test. If the water drops in and darkens the concrete immediately, then prep may not be necessary. If the surface is a troweled surface, you may need to mechanically grind the floor to open the pores for better penetration of the dye.

## **POLISHED CONCRETE PREPARATION**

For polished concrete, follow the Architectural Specification available on the RESOURCES menu at the Endurable website.

## **MOISTURE TESTING**

Performing a moisture test is recommended to determine if the substrate is suitable for sealing with Endurable Concrete Sealer. A Calcium Chloride test or an RH meter may help determine the moisture drive/content of the concrete. A piece 2 mil plastic may also be taped to the surface for approximately 24 hours if no testing equipment is available. A combination of two or more of these tests is recommended for comprehensive analysis.

A Calcium Chloride reading above 5lbs can yield less than desirable results.

A reading of 75% on an RH meter can yield less than desirable results.

Coring meters are much more reliable than surface RH meters. Tape a piece of 2 mil plastic on all sides to the surface for 24 hours. If moisture is present after 24 hours, the concrete may have a moisture problem.

If it appears the concrete has a moisture issue, then the problem must be mitigated before the application of sealer.

One option to mitigate moisture issues is to use Endurable Concrete Hardener. Spray a minimum of three heavy applications. Wait 24 hours and repeat moisture testing. If problem still exists, repeat application of Endurable Concrete Hardener until problem is mitigated.

## **PH TESTING**

Before Endurable Concrete Dye is applied it is advisable to test the pH of the concrete. The pH of the concrete should be between 8 and 10. To test the pH of a concrete surface, use the Endurable pH Pencil. Please refer to the technical data sheet of Endurable pH Pencil for application instructions.

Many concrete cleaners are acidic or alkaline and leave the surface acidic or alkaline. Improper pH can affect the dye. Improper pH levels in the concrete can also prohibit sealers and coatings, including Endurable Concrete Sealer, from curing properly.

## **CARRYING AGENT OPTIONS**

- Water
- Acetone
- Denatured alcohol

## **MIXING INSTRUCTIONS**

Dispense product into a suitable carry agent. Rinse the bottle several times. Combine the product and carrying agent at low speed with a drill and paddle.

**IT IS NOT RECOMMENDED TO BREAK DOWN ENDURABLE CONCRETE DYE BOTTLES.**

## **APPLICATION TOOL OPTIONS**

- Pump up sprayer with a .05 to .15 gpm conical tip at 40 psi (on smooth surface concrete use a maximum .05 - .08 gpm conical tip)
- Microfiber pad
- HVLP (cup gun) for countertop application

## APPLICATION INSTRUCTIONS

Apply the first coat via pump sprayer. If a second coat is needed, do not apply first coat is completely dry. For polished concrete follow the Endurable Concrete Dye, Endurable Concrete Hardener, and Endurable Concrete Sealer system specification on the Endurable website.

## WARNINGS

**ALWAYS PERFORM TEST AREAS. CONCRETE MUST BE DRY.  
ALWAYS BE CAUTIOUS WITH FLAMMABLE CARRYING AGENTS.  
EXTINGUISH ALL IGNITION POINTS AND USE APPROVED  
RESPIRATORS WHEN APPLICABLE. FOLLOW CARRYING AGENT  
MANUFACTURER RECOMMENDATIONS AND WARNINGS.**

## MAINTENANCE

Use Endurable Surface Cleaner to clean as needed. Reseal as necessary - 5 to 10 years depending on traffic and usage. Routine buffing with a light pad on a low-speed buffer or burnisher can help maintain an even sheen and a clean surface. The floor may be buffed/burnished with polish and cleaning pads. Rougher pads with heavy machines can cause more wear on the sealer. 1500 grit pads or above may be used after the sealer has fully cured. If the floor has a non-slip additive, it is highly recommended to clean by spraying the Endurable Surface Cleaner and let it dwell. Do not let the cleaner dry before removal. Rinsing with water to the drains is recommended. Excessive floor cleaning with a floor scrubber can lead to faster degradation of the non-slip additive. Excessive abuse with highly caustic chemicals can lead to a premature degradation of the sealer or may change the look or decorative nature. If reapplication of the sealer is needed, the floor should be cleaned and scuffed before a new application of Endurable Concrete Sealer is applied.

## STORAGE AND SHELF LIFE

Product has a shelf life of a minimum of 1 year in original containers. Store product at 40 - 80 degrees Fahrenheit. Keep product free from excessive heat, moisture, and freezing.

## SAFETY

Use with proper ventilation. May cause eye and skin irritation. An Organic Vapor Respirator is recommended. As with any chemical, respirators, eye protection, and gloves are recommended.

**Extinguish all ignition sources when mixing with flammable solvents.**

## LIMITATIONS

Product should be applied in thin coats. Product must be applied to clean, dry substrates. It is recommended to apply to porous surfaces for longest-lasting results. Product should not be applied to concrete with pH or moisture related issues.

## WARRANTY

Evaluate whether this product is suitable for your intended application. Conditions of product use are outside of our control and vary widely, the following is made in lieu of all express or implied warranties of merchantability: Our only obligation and your only remedy are replacement of product, at the option of HDIP INC. In no case will HDIP INC be liable for any direct, indirect, special, incidental, or consequential damages including lost profits, goodwill, or business opportunity.

## TECHNICAL ASSISTANCE

For technical questions or support, call 800-910-3120 ext. 1 between the hours of 8:30 am to 4:30 pm PST.