

HydroDye

Waterborne Concrete Dye



DESCRIPTION • *HydroDye* is a ready-to-use, waterborne, deep penetrating dye designed to give concrete and cement-based surfaces a vibrant and translucent color. *HydroDye* does not act like paint; the colors produced are translucent, variegated and mottled in nature. Formulated to penetrate the pores of the concrete, *HydroDye* may be applied on ground and polished concrete installations.

USES • *HydroDye* is a deep penetrating compound that diffuses the pores of any unsealed and unpolished concrete or cementitious surface. The color produced is unique to each surface, according to its conditions and degree of porosity. Several tones of *HydroDye* may be used on a given area either simultaneously or consecutively in order to produce unique and endless variety of coloring effects and hues. *HydroDye* is suitable for interior residential and commercial applications on vertical and horizontal surfaces. *HydroDye* may be applied on fully cured concrete or other cementitious overlays, such as **TopCrete 600 Overlayment Screed**, **TopCrete 601 Stampable Overlayment**, and **TopCrete 220 Micro Topping Skim Coat**.

ADVANTAGES

- ✓ Penetrates and fills the pores of the concrete.
- ✓ Waterborne - low VOC and environmentally friendly.
- ✓ Very easy to use and safe to work with.
- ✓ Produces an attractive translucent and mottled coloring effect.
- ✓ Can be used to create an endless variety of customized and unique looks.
- ✓ Available in a wide range of colors.

LIMITATIONS • The final appearance is unique to each surface and is dependent on the surface's mix design, porosity, age, color, and surface texture; the application technique, applicator's experience, weather conditions, and sealer coating. Mottling and color variation is likely to occur due to surface condition variations. The final appearance can not be guaranteed or predicted. It is therefore highly recommended to apply *HydroDye* to a test section of each surface in each desired color.

HydroDye will not perform properly were oils, form release, sealers, dirt, and other coatings are present. Surfaces must be thoroughly cleaned prior to application. Concrete surface must be porous and absorptive; do not apply on pre-polished and sealed concrete. INTENDED FOR INTERIOR APPLICATIONS ONLY. *HydroDye* should not be used to hide surface imperfections or blemishes.

COVERAGE • *HydroDye* may be applied full strength or diluted with water to produce lighter coloring effects. Exact coverage rate will depend on the method of application, mix design, texture and porosity of the surface and job conditions. Approximately 30 – 50 m² per gallon per coat of undiluted compound is the dominant coverage rate.

SURFACE PREPARATION • Dirt, laitance, coatings, oil, water repellants and curing compounds must be removed from the surface by water jet, sand blasting, or degreasing agents. The surface must also be free of paints, sealers, alkali, and penetrating sealers. If washing or degreasing fail to remove such coatings, the surface must be sandblasted. Dense concrete surfaces may be opened up by mechanical means, such as light sand blasting or high-pressure water washing.

New concrete surfaces must be allowed to cure for at least 14 days before application of *HydroDye*. DO NOT USE ANY LIQUID CURING AGENTS ON SURFACES TO BE DYED. After full curing, concrete surface must be ground to the desired surface finish and profile prior to the application of *HydroDye*. Curing agents must not be used on surfaces to be dyed. In the case of application over **TopCrete 600 Overlayment Screed**, **TopCrete 601 Stampable Overlayment**, or **LevelCrete 902 Self-Leveling Overlayment**, the surface must be allowed to cure for at least seven (7) days. In the case of application over **TopCrete 220 Micro Topping Skim Coat**, the surface must be allowed to cure for at least three (3) days.

All surrounding areas should be masked and protected to prevent spillage to areas outside the treated surface. Precautions should also be taken to prevent wetting of the area or water from penetrating into the concrete. Just prior to application, the surface should be thoroughly cleaned by sweeping and then pressure washing or scrubbing using a rotary floor machine. Older concrete surfaces may require more cleaning and the use of commercial detergents. Cleaning with a rotary floor machine may be necessary with older surfaces. All concrete surfaces must be allowed to fully dry after cleaning and prior to application of *HydroDye*. Prior to full application, test the surface for moisture penetration. If water beads on the surface, then additional cleaning, sanding and grinding will be necessary.

MIXING • *HydroDye* is supplied pre-mixed and ready to use. Mix well before use. For a lighter hue, *HydroDye* may be diluted with distilled water. Two or more tones of *HydroDye* may also be mixed



together prior to application in order to produce customized colors.

APPLICATION • Warning: Do not mix or use simultaneously with other dye or stain systems. Do not apply if moisture is present or might be present before the surface has been completely sealed. Insure that the concrete surface is thoroughly clean and completely dry prior to application.

For application use a hand-pump sprayer of professional quality. For more intricate details and small areas, a sponge brush may be to transfer the material to the surface. Wear proper hand and eye protection at all times.

Apply **HydroDye** in a uniform and consistent manner, holding the sprayer nozzle 30 cm above the surface. Do not allow puddles to form on the surface; this indicates heavy application. Always overlap newly applied areas with older ones in order to maintain a wet edge. Once first coat has dried, wipe surface with a dry white cloth to check for color acceptability. Apply a subsequent coats as necessary to achieve desired color. Any liquid remaining on the surface must be removed prior to sealing. Do not allow moisture to come in contact with the surface before it has been sealed. Sealer coat must be applied as soon as possible after the dye has completely dried.

For more dramatic results, **HydroDye** may be applied in different tones one over the other in a single application (wet-on-wet) or subsequent applications (wet-on-dry), with each producing a different effect. **HydroDye** may also be applied after application of **A-Z ChemStain** to produce yet more coloring effects. In such cases, when using over chemically stained floors, make sure that the acid has been neutralized and the surface thoroughly cleaned and dried prior to application of **HydroDye**. Application of **HydroDye** has a very strong tinting effect, and may overtake the color of chemical stain, color hardener, or skim coat overlays. It is therefore recommended to test a small area first to check for coloring effect. Dilute **HydroDye** as necessary to achieve desired hue.

The number of coats required will depend on the condition of the concrete surface and the desired effect. Penetration of color and tinting of the surface will vary within a given area according to surface porosity, cleanliness, and other surface effects, and therefore, color variation and mottling are expected and desired.

SEALING • After the surface has dried completely, the stained area **must** be sealed with **A-Z Super Sealer** or **A-Z Mega Sealer** as soon as possible. The sealer must only be applied by spray method. The surface should then be inspected periodically for sealer-worn out areas and resealed as necessary. Refer to the relevant CCC technical data sheet for application instructions. Inspect periodically for sealer wear and reapply as necessary.

CLEANING • Clean all tools and equipment promptly with clean water.

STORAGE & SHELF LIFE • Do not store under direct sunlight or under extreme weather and temperature conditions. Container must be tightly sealed and stored upright at all times. Shelf life is 24 months from date of purchase when stored in original unopened container under recommended conditions.

SAFETY PRECAUTIONS • MAY CAUSE EYE IRRITATION. KEEP AWAY FROM CHILDREN. Avoid contact with skin and eyes. Wear proper protection including face mask, rubber gloves, goggles, and protective clothing. DO NOT TAKE INTERNALLY. First aid: Eyes – flush with water and seek medical attention immediately. Ingestions – give several glasses of water or milk and seek medical attention immediately. Contact with skin – wash affected area immediately.

PACKAGING • 1 gallon containers.
