CoverTec
innovative chemistry for substrate solutions
p: 754.223.2465 • f: 754.223.2467
e: tec@covertecproducts.com
CoverTecProducts.com

801805081

ColorStain

UV resistant liquid stain concentrate for concrete

Product Description
ColorStain is a specially formulated non-reactive semi-transparent stain concentrate that will penetrate and color most porous surfaces. It can be mixed in water, acetone, or denatured alcohol. It is a low VOC product with no odor and cutting-edge technology to bring you the smallest particle size available in a concrete stain to allow the greatest penetration.

These stains require a top coat and are compatible with all CoverTec solvent based, water-based, single and two component products, including urethanes, polyaspartics, acrylics and epoxy clear sealers.

Features
- UV resistant
- Compatible with overlays, as a topical stain
- May be applied over previously sealed surface
- Low Odor
- Fast Air Dry
- Low VOC
- Interior and Exterior application

Main Uses
- Concrete floors and other porous substrates.
- Polymer modified overlays and microtoppings
- Over existing sealed surfaces
- Decorative concrete
- Stamped concrete
- Bricks and concrete pavers

Test Data

Property	Typical Results
Solids Content (as supplied)	30% ± 2% by volume
VOC	< 11.0 g/l diluted stain
FlashPoint	>212°F (100°C)
UV Resistance	Excellent

Shelf Life
Concentrate: 24 months. Diluted 12 months
When stored properly in original, unopened container, in cool dry place.

Application Properties

Application temperature	45°F to 105°Fminutes*
Application rate	400- 600 ft^2 per diluted gallon
Drying Time	15-60 minute
Final Cure/Sealer Coat	2 hours

Packaging
ColorStain is supplied as a concentrate. The 3 Fl.oz concentrate makes up to 1 gallon of ColorStain ready to use when diluted. The 15 Fl.oz concentrate makes up to 5 gallons ColorStain ready to use when diluted.

Surface Preparation
Surface must be solid, completely clean, free of oil, wax, grease, asphalt, paint, dirt, loose surface material and any contaminate that will act as a bond-breaker. Weak concrete surfaces must be cleaned down to solid sound concrete by mechanical means.

If there is an existing sealer or cure & seal present, then acetone must be as the carrying agent to penetrate the sealer or cure & seal.

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, mechanically grind, sand, or chemically etched the concrete to open the pores for better penetration of the stain. If there is a sealer present and in good condition, apply a drop of acetone on the surface and rub with a finger to determine if the stain will penetrate when mixed in acetone. Surface will get sticky or tacky when rubbed, indicating that it can be penetrated with acetone.

Grinding: 1st Pass = 80 grit metal bonded diamonds (or comparable) if the surface requires (e.g. adhesives, profile irregularities). 2nd Pass = 150 grit metal bonded diamonds (or comparable). Inspect the substrate for scratch patterns created by the grinding process. If a scratch pattern exists, continue the grinding process by increasing the grit of the diamond. Wet grinding must be used with resin bonded diamonds to avoid transfer of the resin to the substrate.

ColorStain

Dry Grinding: Remove excess dust with vacuum. Remove remaining dust and particulate with micro-fiber pad. A minimum of 3-4 passes over the substrate with a new/clean micro-fiber mop per pass will remove residual dust. The use of an auto-scrubber with brush attachment in conjunction with clean water can also be used to extract particulate. Continue to clean substrate until extracted water is clear.

Wet Grinding: Remove slurry from floor via wet vacuum or auto scrubber with brush attachment in conjunction with clean water. Continue to clean substrate until extracted water is clear.

Color
All the colors have been specially formulated to produce most durable UV and alkali resistance. All the colors are totally compatible with one another in both the wet and dry stage. See **ColorStain color charts for available colors**.

Dilution/Mixing
ColorStain is supplied as a concentrate. The 3 Fl.oz concentrate makes 1 gallon of ColorStain ready to use. The 15 Fl.oz concentrate makes 5 gallons ColorStain ready to use. Dilute concentrates using water, acetone, or denatured alcohol. Water is not recommended when applying to overlay systems that are commonly high in polymer. The water will often raise the polymers to the surface.

Application Method
Application is easiest with a pump sprayer with a conical tip. Tip size of .05 to .15 gpm at 40 psi is recommended to reach coverage rates of 400-600 s.f. per gallon.
There may be residue left on the surface, most notably when the carrying agent is acetone, and when applied to a surface that has low porosity. You may wish to remove the excess residue with a white buff pad when working on a flat surface, but not necessary on broom-finished concrete.

Brush/Sea Sponge Application: For application areas where coverage and product control are warranted, apply ColorStain with a sea sponge or traditional bristle brush (e.g. corners and walls). Using this method of application may result in the appearance of mechanical lines.

Note: Roller application methods force absorption resulting in mechanical lines.

Secondary/Highlight Color: To achieve increase color depth or mottled appearance. A secondary or highlight coat can be applied as soon as initial ColorStain color is dry to the touch (approximately 15 minutes). All ColorStain colors are compatible, thus can be mixed, sprayed simultaneously and layered to achieve a desired appearance.

Previously Sealed Surfaces: After cleaning the previously sealed surface, apply ColorStain diluted with acetone via pump sprayer or HVLP (this application will atomize the stain) to a small, out of the way test section of the sealed surface. Allow the stain to dry (15-20 minutes). Test for adhesion by running your hand over the stained surface. If you are unable to rub the stain off, the stain has achieved adhesion. Apply ColorStain to the remaining areas. **Allow a 2-hour drying period before applying a clear sealer over ColorStain.**

Limitations
- Do not use on Non-porous substrates (e.g. metal, resin, fiberglass)
- Do not use for severe cold weather applications
- Do not apply in rain or wet conditions or at temperatures below 45°F (7°C) or above 105°F (40°C)
- Do not use in areas of constant water submersion.
- For polymer overlay systems, water is not recommended for dilution.
- Roller application methods force absorption resulting in mechanical lines.

Health and Safety
Before using this product consult the Material Safety Data Sheet (MSDS). The MSDS can be obtained at www.covertecproducts.com

Limited Warranty
This product is warranted to be of good quality and that it complies with the properties shown in its current datasheet. CoverTec will replace or, at our election, refund the purchase price of the product if proven defective when used according to the instructions in the current datasheet. Any suspected defect must be reported to CoverTec in writing within one (1) year from the date of shipment. No claim will be considered without such written notice or after the specified time interval. CoverTec Products LLC, **makes no warranty as to the merchantability or fitness for a particular purpose and this warranty is in lieu of all other warranties express or implied and explicitly excludes liability for consequential damages, down time, or delay.**