

CSI Solvent Seal 23 100 VOC

Gloss and Matte



Technical Data Sheet DS



Helix Color Systems is a premier line of specialty decorative concrete admixtures manufactured by ChemSystems Inc. Helix Color Systems is manufactured for the discriminating installer or designer who values service and quality. Specializing in custom colors, specialty products, and superior service, Helix Color Systems offers an innovative alternative in the decorative concrete industry.

Description

CSI Solvent Seal 23 100 VOC is a high quality, solvent-based acrylic sealer that meets VOC regulations of 100 g/l. It is designed to seal concrete, masonry and stone surfaces, providing a gloss finish that will protect from water, dust, stains and dirt. It contains fast drying solvents that require the sealer to be spray applied when temperatures exceed 75 °F.

Product Benefits

- When applied according to the written instructions, CSI Solvent Seal 23 100 VOC provides a breathable, non-yellowing protective finish and enhances exterior concrete, terrazzo, brick and masonry surfaces.
- CSI Solvent Seal 23 100 VOC provides a gloss finish, depending on substrate, product used and number of coats applied. CSI recommends a minimum of two coats for best results. Always test in an inconspicuous area for desired gloss and compatibility.
- CSI Solvent Seal 23 100 VOC is an excellent choice for sealing and enhancing the following surfaces:
 - Colored, imprinted concrete
 - Colored concrete that has been unsealed or stripped
 - Concrete that has been treated with water-based stain, acid stain, or dye that has been left unsealed or stripped
 - Color hardened concrete that has been left unsealed or stripped
 - Uncolored concrete that has been left unsealed or stripped
 - Exterior concrete surfaces that will weather naturally
 - Exposed aggregate
- CSI Solvent Seal 23 100 VOC protects surfaces against dusting, staining and dirt with non-yellowing finishes. CSI Solvent Seal 23 100 VOC enriches the tone of concrete colored with CSI Integral Color*, CSI Color Hardener* and CSI Stampable Overlay*, as well as accentuate the surface character of concrete treated with CSI ChromaStain* or CSI Concrete Dye*.
- Tinted CSI Solvent Seal 23 100 VOC is not meant to be the primary coloring system. A tinted sealer should be used in conjunction with another CSI concrete coloring product.

Pre-Application

1. When using CSI Solvent Seal 23 100 VOC, the surface must be clean and completely dry before application. If the surface is not clean or completely dry, the sealer may turn white or hazy, or the sealer may fail to form a proper film. If excessive moisture in the concrete is suspected, contact ChemSystems, Inc. for technical assistance before applying CSI Solvent Seal 23 100 VOC.
2. Before applying product to new or existing concrete, test CSI Solvent Seal 23 100 VOC in an inconspicuous area for desired results. For any questions regarding application, contact ChemSystems, Inc.

Application

Warning: Do not apply CSI Solvent Seal 23 100 VOC to fresh concrete. CSI Solvent Seal 23 100 VOC is not a curing compound. Allow at least 7 days for concrete to cure or at a very minimum, wait until the concrete has reached a uniform color. For optimum results, allow concrete to cure for 28 days or longer.

1. The surface should be completely clean and dry before application. For cleaning use CSI Neutralizer/ Degreaser* diluted with at least 2 ounces of CSI Neutralizer/ Degreaser* per gallon of water. If applying over old lacquer or sealer, test a small area to determine compatibility. Loose, flaky sealer should be removed using a high-pressure washer.

2. Surface must be thoroughly cleaned, rinsed and allowed to dry. To clean existing or old concrete surface, use one part CSI Neutralizer/ Degreaser* to eight parts water. On smooth surfaces, scrub in with automatic scrubber or use a low-speed buffer equipped with scrubbing pads or brushes. After scrubbing surface, use a mop and ringer bucket with clean water to rinse the surface of remaining residue. On rough surfaces or textured concrete, use the same equipment as with smooth surfaces but rinse with pressure washer.
3. If applying sealer to existing concrete, paint or other coating, test prior to application in an inconspicuous area to ensure compatibility. For any questions regarding surface of existing concrete, contact ChemSystems, Inc.
4. CSI Solvent Seal 23 100 VOC should be applied undiluted with a high-quality pump-up or airless sprayer.
5. **Important:** When applying CSI Solvent Seal 23 100 VOC, do not allow the sealer to puddle. Apply the sealer as uniformly as possible without leaving either spaces or puddles. Multiple thin applications will give better results than a single, heavy application.
6. Two light coats of CSI Solvent Seal 23 100 VOC, at the recommended coverage rate, is usually sufficient to seal and protect. However, for increased gloss, durability and extra protection, apply additional coats after initial coats are dry.

Surface Protection and Maintenance

- For areas where oil spills may occur, like parking garages and driveways, use CSI Solvent Seal 23 100 VOC according to application directions as stated above. CSI Solvent Seal 23 100 VOC will resist oil stains initially upon contact.
- Note:** If oil is left on the surface for an extended period of time or if the oil is not properly cleaned up, the oil may penetrate the sealer and go into the concrete. Should oil penetrate the sealer, that area can be degreased with CSI Neutralizer/ Degreaser* and recoated with CSI Solvent Seal 23 100 VOC.
- Remove any CSI Solvent Seal 23 100 VOC using CSI Sealer Stripper*.
 - Maintain the sealed surface with regular cleaning:
 - *Day-to-Day Cleaning* – CSI Solvent Seal 23 100 VOC, like all surface sealers, must be kept clean for maximum durability and protection. Frequent sweeping or vacuuming of loose soils will significantly increase the wear-life.
 - *Maintenance Cleaning* – Clean sealed surfaces with a neutral pH cleaner (a water-based detergent cleaner), rinse and let dry.
 - *Removing Ground-in Soils* – For removal of ground-in soils, use a neutral pH cleaner diluted to two to four ounces per gallon of water, scrub with a low-speed buffer. Rinse by pressure washing thoroughly. Let dry before allowing traffic.

Limitations and Precautions

- **These Products are Highly Flammable.**

Keep away from heat, sparks, and flame. Vapors may cause flash fire. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent buildup of vapors by opening all windows and doors to achieve cross-ventilation. Use only with adequate ventilation.
- **Use on interior concrete:** If used on interior concrete, ensure adequate ventilation and block all HVAC ventilation ducts which may distribute solvent odor.
 - Do not breathe vapors or spray mists. Ensure fresh air entry during application and drying.
 - Prevent buildup of vapors by opening all windows and doors to achieve cross-ventilation. Use only with adequate ventilation.

- Do not apply when concrete surfaces or ambient temperatures are below 40 °F and above 90 °F. Use with adequate ventilation and keep away from open flames.
- If solvent odor is objectionable, the use of a water-based, low odor product, such as CSI ChemSeal*, CSI Permaseal* or CSI Poly Seal*, may be preferred.
- CSI Solvent Seal 23 100 VOC will protect concrete from dusting and soiling if applied properly, evenly, with adequate film thickness, and with sufficient coverage as outlined in the application directions. Insufficient number of coats when applying CSI Solvent Seal 23 100 VOC will result in inadequate protection for the concrete.
- Failure to remove dirt and debris from the surface or failure to properly clean the surface will result in premature wear and will impair penetration.
- Adhesive-backed tape (such as duct tape) left on the CSI Solvent Seal 23 100 VOC over an extended period of time will create a chemical “weld” between the tape and the sealed substrate. If this happens, the sealer may be subject to delamination. Delamination can also occur when plastic or synthetic rubber mats are placed on the surface and left undisturbed over extended periods and when rubber tires on the sealed surface have been exposed to heat.

Shelf Life and Storage

CSI Solvent Seal 23 100 VOC has a shelf life of one year. Store product indoors, away from heat, direct sunlight and sources of ignition. Do not allow product to freeze.

Coverage Rate and Drying Times

Coverage rates may vary depending on the texture, porosity, condition of the concrete, the application method, and other local conditions. Two light coats of CSI Solvent Seal 23 100 VOC at the recommended coverage rates are usually sufficient to seal and protect. However, if you want increased gloss, durability, and extra protection, apply additional coats after initial coats are dry.

- *Smooth Finish* – Material usage is 300-500 square feet per gallon/coat.
- *Rough or Broom Finish* – Material usage is 250-400 square feet per gallon/coat.

Drying times will vary depending on surface porosity, temperature, humidity and other local conditions.

Note: When the air temperature reaches 85 °F or higher and the surface to be sealed is in the direct sunlight, the temperature can be 10 -20 degrees higher thus causing the sealer to flash off which in turn may cause blistering or bubbling of sealer. If this occurs wait for the temperature to drop and apply a light thin coat of xylene to re-emulsify the sealer.

- *Set to Touch* – Surface can be lightly touched 30 to 60 minutes after application.
- *Recoat* – Surface can be recoated two to four hours after each application.
- *Light Traffic* – Light traffic can be allowed 24 hours after final coat.
- **CSI Solvent Seal 23 100 VOC** will dry rapidly. Avoid applying product with a nap roller.

Package Sizes

CSI Solvent Seal 23 100 VOC is available in 1-, 5- and 55-gallon units.

Applicable Standards

CSI Solvent Seal 23 100 VOC conforms to most California Air Quality Management VOC regulations, and to federal regulations for all states.

- ASTM D2047 – exceeds slip-resistance requirements
- ASTM D2801 for leveling
- ASTM D3153 for recoatability
- ASTM D523 for gloss (CSI Solvent Seal 23 100 VOC is 90)

Technical Data

Please refer to the corresponding MSDS for hazard-related information.

Color	Clear (<i>unless tinted to CSI specification colors</i>)
Odor	Sweet
Solids Content	23%
Flash Point	-4 °F
VOC Content	100 g/l
Resin	Pure acrylic, non-yellowing

Product Handling

For complete instructions on handling and use, consult the corresponding Safety Data Sheet before using product.

Warranty

CSI Solvent Seal 23 100 VOC a proprietary product, is warranted to be of uniform quality within manufacturing tolerances. Since control is not exercised over its use, no warranty, expressed or implied, is made as to the effects of such use. Seller’s and manufacturer’s obligation under this warranty shall be limited to refunding the purchase price of that portion of the material proven to be defective. The user assumes all other risks and liabilities resulting from use of this product. If you have any questions, please contact ChemSystems, Inc.



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*For complete information on all CSI products—including product information catalogs, product brochures, color charts, technical specifications, sales aids and more—contact ChemSystems, Inc.

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