

CSI ChemSeal WB Gloss

(formerly called HBS Gloss Sealer)

Technical Data Sheet 17.0509DS



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 ChemSeal WB Gloss is a water based pure acrylic sealer suitable for decorative concrete, gray concrete, stone, brick, stucco, porous tile, and concrete counter tops. It has excellent blush resistance, as well as resistance to yellowing from UV exposure. This sealer provides a satin to semi gloss finish to all concrete surfaces.

Product Benefits

- CSI ChemSeal WB Gloss increases durability of concrete surfaces.
- CSI ChemSeal WB Gloss is ideal for interior surfaces where solvent-based material cannot be used.
- CSI ChemSeal WB Gloss will not yellow, haze or flake.
- CSI ChemSeal WB Gloss can be tinted with CSI Tint Concentrate WB* to enhance concrete that has been colored. (Tinted CSI ChemSeal WB Gloss is designed to enhance the look of concrete that has been colored, not to function as the primary coloring system.)

Pre-Application

1. The surface should be clean and dry. If the surface is not completely dry, the product may turn white or hazy. If aggressive moisture movement on interior concrete is suspected, exact moisture movement levels can be measured using a moisture test kit in accordance with ASTM D4263 standards, following the manufacturer's instructions. Moisture measurements of five pounds and below are acceptable. If measurements fall outside of this range, CSI ChemSeal WB Gloss should not be applied.

This material is dependent on proper penetration. Any existing curing agents, coatings, sealers, oils, paints, dirt and/or efflorescence will inhibit penetration of CSI ChemSeal WB Gloss. Any materials that would prevent penetration must be removed before application. In the case of sealers, cures, and coatings, mechanical removal—such as shot-blasting, sand-blasting or terrazzo-grinding—is advisable. Use a good commercial cleaner/degreaser to help remove grease and oil. Harsh chemicals should never be used to remove any of the materials cited here.

2. Use the same equipment as with smooth surfaces but rinse with pressure-washer.

3. Before applying product, test CSI ChemSeal WB Gloss in an inconspicuous area for desired results. If applying CSI ChemSeal WB Gloss over old sealer, paint or other coating, it is also important to test for adhesion in an inconspicuous area. If in doubt about application, contact ChemSystems, Inc.

Application

1. For smooth-troweled concrete, a microfiber applicator may be used. For rough surfaces or textured concrete, a 1/2 inch nap roller is recommended. Apply the sealer uniformly.

2. **Important:** When applying CSI ChemSeal WB Gloss, do not allow the sealer to puddle. Apply the sealer as uniformly as possible, without leaving either spaces or puddles. It is better to apply two thin coats rather than one single, heavy coat. Allow each coat to dry before applying subsequent coats.

3. For acceptable oil and water resistance, a minimum of two coats must be applied.

4. For best results on interior surfaces with medium to high traffic, apply CSI ChemSeal WB Gloss and then apply a surface finish product or good commercial wax.

5. Apply CSI ChemSeal WB Gloss when air and surface temperatures are above 50 °F and below 90 °F. Assure that temperature does not fall below 50 °F for 24 hours after application.

Surface Protection and Maintenance

• *Day-to-Day Cleaning* – CSI ChemSeal WB Gloss, like all surface sealers, must be kept clean for maximum durability and protection. Frequent sweeping or vacuum-removal of loose soils will significantly increase the wear-life of CSI ChemSeal WB Gloss or any surface coating.

• *Maintenance Cleaning* – Surfaces sealed with CSI ChemSeal WB Gloss should be cleaned with a water-based detergent cleaner, rinsed and allowed to dry. On interior surfaces where routine maintenance is required, use a low-speed buffing maintenance system.

• CSI ChemSeal WB Gloss may be removed using a good commercial paint stripper.

• For both indoor and outdoor surfaces, let dry before opening to traffic.

Limitations and Precautions

• CSI ChemSeal WB Gloss is not a curing compound. Do not apply product to freshly placed concrete. Allow at least 14 days for concrete to cure. For optimum results, allow concrete to cure for 28 days or longer.

• If applying CSI ChemSeal WB Gloss to existing extremely hard-troweled concrete, a light acid etch and neutralizing may be needed.

• CSI ChemSeal WB Gloss will protect concrete from dusting and soiling if applied properly, evenly, and with sufficient coverage as outlined in the application directions.

• Failure to remove dirt and debris from the surface or failure to properly clean the surface will result in premature wear and will limit your ability to protect the concrete.

• Do not apply CSI ChemSeal WB Gloss if the surface or ambient temperature is below 50 °F or above 90 °F, or if the temperature is expected to fall below freezing (32 °F) within the 24-hour curing cycle.

• Adhesive-backed tape (such as duct tape) left on CSI ChemSeal WB Gloss 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.

Coverage Rate and Drying Times

Coverage rates may vary depending on surface porosity, texture, age and condition of the concrete, the application method, and other local conditions.

- *Smooth Finish, Per Coat* – Material usage, per coat, is approximately 300-400 square feet per gallon.
- *Rough or Broom Finish, Per Coat* – Material usage, per coat, is approximately 200-300 square feet per gallon.

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

- *Set to Touch* – Surface can be lightly touched 30-45 minutes after application.
- *Recoat* – Surface can be recoated one to two hours after each application.
- *Light Traffic* – Light traffic can be allowed eight to twelve hours after final coat.
- *Vehicle Traffic* – Vehicle traffic can be allowed two to three days after final coat, depending on temperature. Hot tire traffic or extreme turning of vehicles on the surface prior to proper drying time may leave permanent black marks or may remove sealer.

Package Sizes

CSI ChemSeal WB Gloss is available in 1-, 5- and 55-gallon units.

Applicable Standards

- CSI ChemSeal WB Gloss exceeds coefficient of friction per ASTM D2047 standards for slip-resistance.

Technical Data

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

ColorWhite (unless tinted to CSI specification colors)

FormStable liquid emulsion, dries clear

Solids Content18%

Flash PointNone

VOC ContentLess than 250 grams per liter

Gloss98 (ASTM D523-89)

PowderingNil (ASTM D2048-92)

RecoatibilityExcellent (ASTM D3153-87)

Shelf Life and Storage

Store between 50-80 °F in sheltered environment; do not store in sunlight; sealed, unopened product has a shelf life of one year.

Product Handling

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

Warranty

CSI ChemSeal WB Gloss 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.



*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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www.helixcolorsystems.com

ChemSystems, Inc. 10101 Genard Road, Houston, TX 77041
P: 800.545.9827 • F: 713.329.9065 • www.chemsystemsinc.net