

# CSI Poly Seal 85 SB Hi Gloss

Technical Data Sheet 18.0509DS



*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 Poly Seal 85 SB Hi Gloss is a tough, 85% solids aliphatic poly-urea system that protects and beautifies decorative and gray concrete surfaces, including but not limited to, stamped concrete, stained and dyed concrete, and decorative overlays. The application of CSI Poly Seal 85 SB Hi Gloss to concrete results in a high-gloss, abrasion-resistant surface that is resistant to temperatures up to 350° F. This two-component system has excellent adhesion to concrete and quick return-to-service time. CSI Poly Seal 85 SB Hi Gloss can be applied with a roller, brush, airless sprayer, or notched squeegee. CSI Poly Seal 85 SB Hi Gloss is water-proof if film integrity is not broken.

## Product Benefits

- Fast return-to-service
- High chemical and stain resistance
- Flexibility minimizes cracking
- Flexural Strength ( 300% Elongation)
- Can be applied in cooler temperatures
- Excellent adhesion to concrete
- Can be applied with a roller
- High Gloss shine

## Application

1. Fresh concrete should be properly cured for a minimum of 28 days before the coating is applied. ChemSystems, Inc. utilizes International Concrete Repair Institute (ICRI) Concrete Surface Profile (CSP) standards for specifying finished surface roughness prior to applying CSI Poly Seal 85 SB Hi Gloss. For proper adhesion, the concrete must have a minimum surface profile of #1 in accordance with the ICRI CSP chart. Contact the ICRI at [www.ICRI.org](http://www.ICRI.org) or ChemSystems, Inc. for more information on these surface profiles.

2. Acid etch or abrade the surface to at least 100-grit finish for maximum adhesion. Prior to application, all concrete surfaces should be clean, completely dry, and free of dust and other coatings or contaminants that might prevent penetration. Surfaces that have been acid etched should be thoroughly neutralized. Vapor transmission should not exceed 3 pounds per 1000 sq.ft.

3. Pour Part B into Part A and mix until streak-free. Scrape the sides of the container during the mixing process to ensure a complete blend. Avoid drawing air into the mixture during agitation. The system is ready to use after thorough mixing.

4. CSI Poly Seal 85 SB Hi Gloss should be applied to concrete surfaces with an airless sprayer, brush, roller, or notched squeegee to a wet film thickness of 4-150 mils (400-160 sq.ft./gal). Additional coats may be added after 2 hours and before 16 hours without sanding. A single application should not exceed 20 mils when relative humidity is greater than 90% or 150 mils when the relative humidity is greater than 40%. Conditions where condensing humidity is likely should be avoided! A primer coat is recommended for best results. A primer can be made by adding 1 part Xylene to 1 part A and 1 part B of CSI Poly Seal 85 SB Hi Gloss. (Ex: add 2 quarts of Xylene to one gallon of mixed CSI Poly Seal 85 SB Hi Gloss) Apply at approximately 400 sq.ft./gal, depending on substrate porosity. As an alternative, an epoxy primer may be used. In cooler temperatures (below 70 F), the product may need to

be thinned up to 10% by volume with Xylene to reduce viscosity. Adjust coverage for desired DFT (Dry Film Thickness). Best results for a clear film are obtained by applying multiple coats. CSI Floor Finish is recommended as a maintenance coating for interior applications.

## Limitations and Precautions

- Avoid contact with moisture. This will cause carbon dioxide bubbles to form in film.
- Clean up with Acetone or Aromatic Solvent (A100, Xylene, or Toluene) before CSI Poly Seal 85 SB Hi Gloss hardens.

## Coverage Rate and Drying Times

- 400 ft.2 per gallon @ 3.28 mils DFT (Dry Film Thickness)
  - 32 ft.2 per gallon @ 41 mils DFT (Dry Film Thickness)
- Tack Free Time\*: .....1 hr 45 min.  
Light Vehicle Traffic: .....24-36 hours  
Light Foot Traffic\*: .....4 hours  
Full Cure\*: .....2 weeks  
Recoat Window: .....2-16 hours

\* Cold temperatures will lengthen cure times and increase viscosity but won't stop full cure.

## Package Sizes

CSI Poly Seal 85 SB Hi Gloss is available in 1-and 5-gallon kits.

## Technical Data

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

Shore Hardness: .....	65 D
Density @ 20oC (g/cc).....	1.05
Weight Solids: .....	85%
Volume Solids: .....	82%
Pot Life: .....	30 min. @ 70° F
Gloss (60°): .....	80+
Flash Point: .....	110° F
VOC: .....	<400 g/L
DOT: .....	Non-regulated <119 gals.

## Product Handling

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

## Warranty

CSI Poly Seal 85 SB Hi 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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