

CSI Concrete Bonder Type I

(Re-Emulsifying Latex Bonding Agent)



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Technical Data Sheet

Description

CSI Concrete Bonder Type I is a ready to use, film forming, re-emulsifiable liquid bonding agent and polymer modifier for concrete. It is designed to improve the adhesive and physical properties of most cementitious materials. Its blend of polymers provides optimum strength as a bonding agent or admixture for concrete repair, leveling, grouts, thin sets and mortar beds or rubbing applications. It may be used interior or exterior, as well as below or above grade. It can be used as wet-on-wet or wet-on-dry because it does re-emulsify after drying when used as a bonding agent for cement based applications.

Product Benefits

- CSI Concrete Bonder Type I may be used as an admixture for concrete, mortar plaster, stucco, underlayments and most cementitious materials. As an admixture, CSI Concrete Bonder Type I will create a stronger, more flexible end product that, when cured, will exhibit superior adhesion to other cementitious products.
- CSI Concrete Bonder Type I, undiluted, can be used as a primer to promote better adhesion for overpours, underlayments and patches.
- Improved Adhesion
- Improved Bond Strength
- Increased Tensile & Flexural Strength
- Greater Flexibility & Toughness
- Greater Impact Resistance
- Improved Freeze/Thaw Durability

Pre-Application

To insure a proper bond of patches, grout and overpours, the surface must be clean of all loose materials and contaminants. This includes all dust, dirt, grease, curing compounds or sealers. The surface should have a rough finish. Light sanding or acid etching may be required to roughen smooth surfaces. Acid etching is not an effective method of removing dirt or most sealers. Usually a hot solvent works well, but you should determine what material was used on the surface and consult the manufacturer of the product for the best removal method. A blast track type removal system works best for all types of contaminants. Once thoroughly cleaned, the surface should be dampened with clean water and temperature should be above 40 F.

Overpours: Apply the undiluted bonding agent to the existing surface and allow it to become tacky. The surface should be slightly moist for best results. The weather and outside temperature affect the drying time.

Application

- 1. Light Work:** To increase flexibility, add 1 pint bonder per 94 lb. bag of Portland cement, to the mixing water.
- 2. Medium Work:** To reduce cracking and improve impact resistance, add 1 quart bonder per 94 lb. bag of Portland cement, to the mixing water.
- 3. Heavy Work:** To increase impact resistance, flexibility and tensile strength, add 2 quarts bonder per 94 lb. bag of Portland cement, to the mixing water.

Package Sizes

CSI Concrete Bonder Type I is available in 1 gallon jugs (4 to case), 5 gallon pails and 55 gallon drums.

Technical Data

Please refer to the corresponding SDS for hazard-related information.
Meets or exceeds ASTM C-1059
Density.....Approx. 9.2 lbs. per gallon
Solids Content.....Approx. 40%
Shear Strength (ASTM C1059)..... 913 psi (min required 400 psi)

Product Handling

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

Warranty

CSI Concrete Bonder Type I, 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.

TABLE OF PROPORTIONS' HBS CONCRETE BONDER

	BONDING GROUT (PARTS)	TOPPING MIX (PARTS)
HBS CONCRETE BONDER II.....	1.....	1
Sand.....	2.5.....	15
Cement.....	5.....	5
Water.....	as required.....	as required



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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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