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## **BOMANITE CSB LIQUID POLYMER**

### Technical Bulletin and Application Guideline

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Bomanite CSB Liquid Polymer is a dual carboxylated styrene butadiene polymer blend formulated to improve cement-based products. Bomanite CSB Liquid Polymer reduces shrinkage, improves bond strength, lowers permeability and provides resistance to material detrimental to Portland cement such as alkaline salts, water and acids. Bomanite CSB Liquid Polymer is used in a variety of Bomanite bagged products as described on their particular Technical Bulletins, Application Guidelines and labels.

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#### **FEATURES AND BENEFITS:**

- *Excellent permeation resistance to salt, water and acid*
- *Zero VOC's*
- *Improved adhesion to a variety of substrates in an overlay application*
- *Contains no solvents*

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#### **GENERAL INFORMATION:**

##### **Color**

Milky white liquid that dries clear.

##### **Packaging**

Available in 5-gallon and 55-gallon unit sizes in both the standard ready-to-use form and as a concentrate.

##### **Storage and Shelf Life**

Bomanite CSB Liquid Polymer has good freeze thaw stability and if frozen during transport can be thawed slowly prior to use a maximum of two times. Protect from freezing during long term storage – store between 40 °F and 70 °F for optimal shelf life.

##### **Application**

1. Always add the dry powder bagged product to Bomanite CSB Liquid Polymer when mixing. Determine the amount of liquid required from the Technical Bulletin, Application Guideline or label of the selected product. Add the liquid to the mixing vessel; dependent upon application it can be a bucket, mortar mixer or drum. Add the powder and mix well. Follow the mix guidelines on the selected powder being sure to mix adequately while not whipping air into the final product.
2. Bomanite CSB Liquid Polymer comes in a standard ready-to-use form and as a concentrate. The mix ratio to dilute the concentrate version to a ready-to-use is 1:1 with water. Further dilution may be necessary based on the powdered product being modified.

##### **Limitations**

- Final dilution of the Bomanite CSB Liquid Polymer is determined by the product it is being mixed with. Do not use the Bomanite CSB Liquid Polymer concentrate undiluted as the solids content is too high.
- If using Bomanite CSB Liquid Polymer in cementitious products other than approved Bomanite products be sure to verify the effect on slump, workability, drying times, final properties, etc. prior to application.
- Bomanite CSB Liquid Polymer has good freeze thaw stability and if frozen during transport can be thawed slowly prior to use a maximum of two times.
- Products modified with Bomanite CSB Liquid Polymer may darken over time from exposure to UV light.

**Warranty**

This 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 and manufacturer obligations 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.

***Additional product information, technical bulletins and specifications are available online at [www.bomanite.com](http://www.bomanite.com) or through one of our Bomanite Licensed Contractors. For additional assistance with specifications or technical issues, contact The Bomanite Company.***