

SECTION 4: POLLUTANT REMOVAL - ENVIROSOXX[®]

Filtrex[®] Bacteria Removal Agent (BactoLoxx[®])

BACTERIA REMOVAL AGENT

Description

Filtrex[®] Bacteria Removal Agent (**BactoLoxx[®]**) is a natural anionic flocculent that is used with Filtrex[®] sediment control and pollution prevention practices, such as SiltSoxx[™] for Sediment Control, Check Dams, Concrete Washouts, Slope Interruption, and Filtration System Soxx[™] Baffles. It is specifically used to **reduce coliform bacteria loads in storm runoff**, particularly around sensitive watersheds and receiving waters, near TMDL (303d) listed water bodies, near pet frequented areas, animal feeding operations, and urban watersheds where bacteria in runoff is an issue. Coliform bacteria that BactoLoxx targets in runoff includes but is not limited to bacteria in the genera *Escherichia*, *Klebsiella*, *Enterobacter*, and *Citrobacter*, including *E. coli* and fecal coliforms. BactoLoxx should not be used without one of these Filtrex management practices.

Function

BactoLoxx is a natural flocculent that adsorbs cationic pollutants in runoff when applied with SiltSoxx for Sediment Control, Check Dams, Concrete Washouts, Slope Interruption, and Filtration System Soxx Baffles. BactoLoxx naturally adsorbs positively charged ions to the surface of the BactoLoxx particle, thereby removing the pollutant from runoff transport and preventing it from reaching receiving waters. Coliform bacteria typically exhibit predominantly cationic characteristics. BactoLoxx can be applied in varying application rates to fit the coliform removal objective of the application. BactoLoxx is not a coagulant and is 100% formulated with all natural materials. For more information on testing and research with BactoLoxx and Filtrex products see Tech Links in the Appendix and performance criteria tables presented with each of the Filtrex products listed with this specification.

Installation

1. Where required, BactoLoxx shall be surface applied manually, directly upslope, and along the entire length of the Filtrex sediment control or filtration practice, or thoroughly mixed with FilterMedia[™] prior to filling Soxx.

2. BactoLoxx shall be applied at a rate of 40 lbs/ cubic yard of FilterMedia for optimum performance.

Inspection & Maintenance

1. Additional applications of BactoLoxx may be added after storm events to decrease coliform bacteria loading and contamination of water bodies resulting from future rainfall/runoff events.
2. If Sediment Control, Check Dams, Concrete Washouts, Slope Interruption, or Filtration System Soxx Baffles exhibit significantly reduced hydraulic flow through rates or become clogged, they should be cleaned out or replaced.

Method of Measurement

Bid items shall show measurement as Filtrex[®] Bacteria agent/BactoLoxx[®] + Filtrex[®] BMP per linear ft or per linear m installed.

ADDITIONAL INFORMATION

For other references on this topic, including additional research reports and trade magazine and press coverage, visit the Filtrex website at www.filtrex.com

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