

Filtrex[®] Bacteria Agent

Coliform Bacteria Reduction Technology

BACTERIA AGENT

Description

Bacteria agent is a natural anionic flocculent that is used with Filtrex[®] *sediment control and pollution prevention* practices, such as Sediment control, Check dams, Concrete washouts, Slope interruption, and Filtration system 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 Bacteria agent targets in runoff includes but is not limited to bacteria in the genera *Escherichia*, *Klebsiella*, *Enterobacter*, and *Citrobacter*, including *E. coli* and fecal coliforms. Bacteria agent should not be used without one of these Filtrex[®] management practices.

Function

Bacteria agent is a natural flocculent that adsorbs cationic pollutants in runoff when applied with Sediment control, Check dams, Concrete washouts, Slope interruption, and Filtration system baffles. Bacteria agent naturally adsorbs positively charged ions to the surface of the Bacteria agent particle, thereby removing the pollutant from runoff transport and preventing it from reaching receiving waters. Coliform bacteria typically exhibit predominantly cationic characteristics. Bacteria agent can be applied in varying application rates to fit the coliform removal

objective of the application. Bacteria agent is not a coagulant and is 100% formulated with all natural materials. For more information on testing and research with Bacteria agent 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, Bacteria agent 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. Bacteria agent shall be applied at a rate of 20 lbs/ cubic yard (24 kg/cubic meter) of FilterMedia[™] for optimum performance.

Inspection & Maintenance

1. Additional applications of Bacteria agent 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 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 Filtrexx®
Bacteria agent + Filtrexx® BMP per linear ft or per
linear m installed.

ADDITIONAL INFORMATION

For other references on this topic, including trade
magazine and press coverage, visit the Filtrexx®
Website at: [http://www.filtrexx.com/resourcespress.
htm](http://www.filtrexx.com/resourcespress.htm).

For research reports not included in the Appendix,
visit: <http://www.filtrexx.com/resourcesreports.htm>.

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See website or call for complete list of international
installers.

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