

SECTION 4: POLLUTANT REMOVAL - ENVIROSOXX[®]

Filtrex[®] Nutrient Removal Agent (NutriLoxx[®])

NUTRIENT REMOVAL AGENT

Description

Filtrex[®] Nutrient Removal Agent (**NutriLoxx[®]**) is a natural sorbent technology 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 nitrogen and phosphorus loads in storm runoff**, particularly on fertilized soils, around sensitive watersheds and receiving waters, and near TMDL (303d) listed water bodies. NutriLoxx should not be used without one of these Filtrex management practices. For optimum performance NutriLoxx should be applied immediately upslope and/or along the inner circumference of the Filtrex practice.

Function

NutriLoxx is a natural sorbent technology that reduces soluble nitrogen (ammonium-N, NH₄⁺-N) and soluble phosphorus in runoff when applied with SiltSoxx for Sediment Control, Check Dams, Concrete Washouts, Slope Interruption, and Filtration System Soxx Baffles. NutriLoxx is a material that adsorbs ammonium-N and phosphorus ions to the surface of the NutriLoxx particle, thereby removing the pollutant from runoff transport, preventing it from reaching receiving waters, and reducing the bioavailability of the nitrogen. By rendering the N and P unavailable to aquatic plants, particularly algae, algae blooms, eutrophication, and reductions in water dissolved oxygen levels that may lead to fish kills can be minimized. NutriLoxx has a mild electrostatic charge that attracts oppositely charged ions. As soluble N and P ions attach to the NutriLoxx exchange sites on each NutriLoxx particle, these soluble pollutants are taken out of the storm water runoff flow and rendered unavailable to algae for an indefinite time period. NutriLoxx can be applied in varying application rates to fit the pollutant removal objective of the application. NutriLoxx is not a coagulant and is 100% formulated with all natural materials. For more information on testing and research with NutriLoxx 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, NutriLoxx shall be surface applied manually, directly upslope, and along the entire length of the Filtrex sediment control or

filtration practice.

2. NutriLoxx shall be applied at a rate of 40 lbs/ cubic yard of FilterMedia[™] for optimum performance.

Inspection & Maintenance

1. Additional applications of NutriLoxx may be added after storm events to decrease nitrogen 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[®] Nutrient Removal Agent/ NutriLoxx[®] + 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

Filtrex International, Technical Support
61 N Clev-Mass Rd, Ste E, Akron, OH 44333
877-542-7699 | 234-466-0810 (fax)
www.filtrex.com | info@filtrex.com
Call for complete list of international installers.

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