Reduce salts. Release nutrients. Enhance growth.

From the trees… back to the turf

Terreplex is a carbon-rich acidifier derived from the lignin in trees. It is a natural organic polymer, fully biodegradable, non-phytotoxic, non-corrosive, and economical for use on turf.

Lower bicarbonate levels while converting bound nutrients

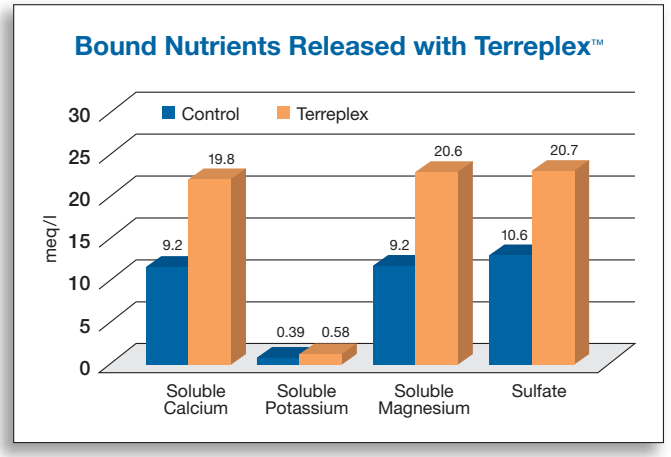
Elevated pH, bicarbonates, and harmful salts found in soil and water can interfere with plant development causing minerals to become bound in the soil and unavailable to turf. **Terreplex** reduces bicarbonate levels helping convert these bound minerals into plant-available forms while acting as a chelating agent to improve absorption.

A renewable carbon source

Terreplex contains over one kilogram of carbon per four liters — more than any other leading product — providing the energy source needed to stimulate soil microbial activity. Users can expect to see enhanced turf nutritional program efficiency, increased cation exchange capacity, and improved soil structure.

Benefits to soil and turf with use of Terreplex™

- Enhances nutritional programs by:
  - Releasing bound nutrients and increasing solubility
  - Complexing with nutrients to improve absorption
- Reduces bicarbonate and sodium levels
- Provides carbon to stimulate microbial activity
- Improves flocculation and soil permeability
- Adjusts soil pH levels
- Offers an economical, alternative carbon source for turf nutrition programs
- Applies safely via spray or irrigation systems
- De-scales irrigation lines



Research has shown soil nutrients are more available to plants following the application of Terreplex (California, 2006).

Terreplex™

Carbon-rich Acidifier

From the makers of TriCure Soil Surfactants

Terreplex™ *Carbon-rich Acidifier*

Releasing Soil-Bound Nutrients

Effect in the Soil

When calcium is applied to the soil, it often binds with nutrients like phosphorus and iron, making them insoluble and unavailable for plant uptake. As a natural chelating agent, **Terreplex** binds with calcium to create calcium lignosulfonate which is beneficial to plants and easily absorbed.

In addition to Ca, **Terreplex** also binds with other primary minerals including Mg and Fe, which prevents these minerals from binding with phosphorus. This keeps the phosphorus available to plants and can reduce fertilizer inputs.

By creating beneficial chelates and by preventing nutrients from being bound in the soil, **Terreplex** helps promote the efficient utilization of plant nutrients.

Effect on the Turf

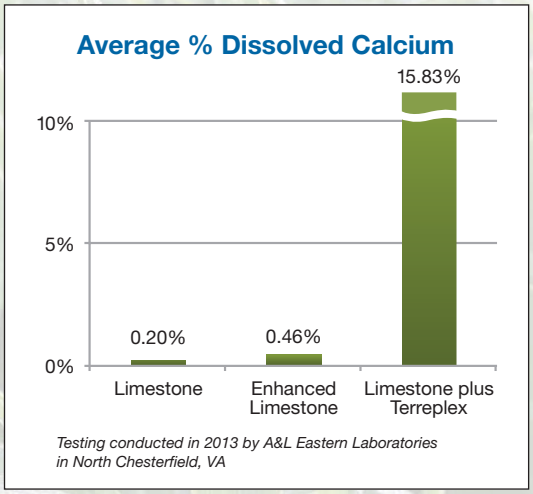
Enhanced greening of turf

Increased turf vigor over the winter

Increased root growth

Reduction of fertilizer inputs

Improved porosity and infiltration



Testing conducted in 2013 by A&L Eastern Laboratories in North Chesterfield, VA

Enhance Lime Applications

Independent lab testing showed that a **Terreplex** overspray provides almost 100x more available calcium than lime alone, and over 30x more than with the enhanced lime products tested.

The challenge with traditional lime applications is that the beneficial release of calcium typically occurs very slowly due to the low solubility of lime and the weak nature of the acids found naturally in soil.

When sprayed over an application of agricultural lime, **Terreplex** can significantly increase the amount of lime solubilization in the soil allowing for reduced lime applications, reduced cost, and improved effectiveness.

Application Considerations

Terreplex is suitable for application on all warm- and cool-season grasses. It can be applied via irrigation systems or as a spray application and is not phytotoxic when used in accordance with the label.

	Rate	Application Schedule
Initial Shock Treatment	4.4 lt/ha or 44 ml/100	Apply the initial treatment, wait 14 days, then begin a maintenance program.
Maintenance Program	2.2-4.4 lt/ha or 22-44 ml/100	Apply Terreplex on a 14-day schedule throughout the growing season. Regular use over time may lead to decreased application rates as conditions improve.
Lime Overspray	8.8 lt/ha for single applications	Terreplex overspray should be applied following a lime application, though it is not necessary to spray immediately after. Water-in after overspray application. Split applications can be made at 8.8 lt/ha 14-28 days apart.

**Rates given for 14-day application schedule, but can be doubled and applied on a monthly basis if preferred.*

MITCHELL PRODUCTS

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