

MICRONA™ Earth Mix

Better pH stability

MICRONA Earth Mix 14M Calcium Carbonate provides superior pH response and stability in container mixes over time, as well as enhanced root growth response.

pH challenges in soilless media

Container substrates and soilless growing media used in nursery greenhouse crops consist of fresh or partially composted bark, peat moss and other organic substances. These substrates do not usually contain mineral soils. Nursery substrates have shown very little ability to buffer against pH changes over time which can be detrimental to plant growth response.

OSU Study

A study conducted by Oregon State University evaluated the effectiveness of various limestone minerals in Douglas fir bark potting soil.

The one year OSU study used different limestone materials to evaluate longer term pH effects in Douglas Fir soilless substrates. The study compared the effectiveness of commonly used pre-mix liming agents. It also determined the best application rates for desired pH and pH stability over time.

Dolomite, standard ag lime, MICRONA Agricultural Lime, pelletized lime, and a new product, Earth Mix 14M were compared. Results were compiled and guidelines established. In this trial, Earth Mix 14M provided the greatest pH response and stability in container cultures over time.

Practical field tests

Practical field tests in commercial nursery situations also yielded some pleasant surprises.

Operators changed the liming material from dolomite to Earth Mix 14M in the substrate recipe for conifers, boxwood and other plant production.

The result was an unexpected enhanced root growth response.



MICRONA Earth Mix 14M can save labor, water, fertilizer, and overall production costs while improving plant quality. In the field tests, operators found Earth Mix 14M provided a “pH paradigm shift” in their substrate.

Bearing in mind that many factors influence substrate blends (such as alkalinity of irrigation water, specific crops grown in the substrate, media components, fertilizer use, etc.), the Oregon State University study and the nursery field trials show that superior alternatives to standard dolomite additions as part of a substrate recipe do exist.

Delivers predictable, repeatable results

MICRONA Earth Mix is manufactured to the highest standards. With consistent high quality and reactivity, MICRONA delivers predictable, repeatable results to improve nursery production and profitability.

Delivers predictable, repeatable results. Always has. Always will.



MICRONA™ Earth Mix 14M

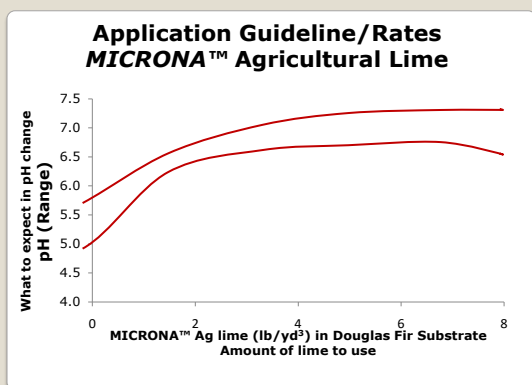
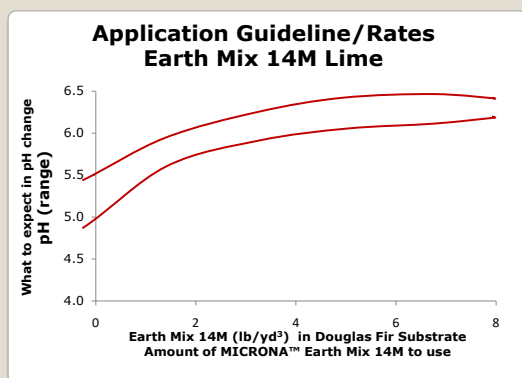
A reactive beneficial soil amendment that pH response and stability.

- Raises soil pH
- Positive root response
- Increases water and nutrient uptake
- Provides calcium nutrition for greater crop resilience

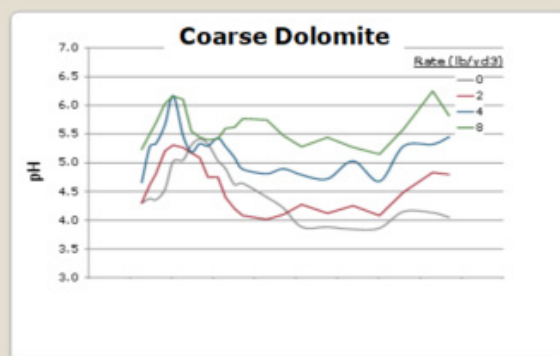
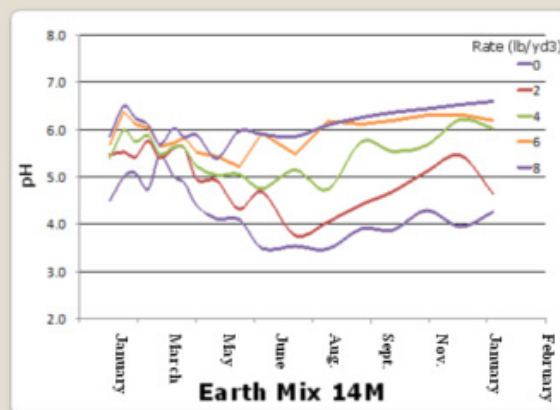
Guaranteed analysis

Calcium carbonate (CaCO_3)	95%
Calcium carbonate equivalent (CCE)	98%
[Oregon] Lime score	65
Derived from limestone.	

Application Information



OSU Study pH Change over time (Douglas Fir Bark Substrate)



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