

IMPROVE NUTRIENT UPTAKE, ROOT DEVELOPMENT & YIELD

NewLeaf Symbiotics[®] proprietary technology, Terrasym, contains pink pigmented facultative methylootrophs (PPFMs) and is available for convenient planter box application and as an overseed treatment. **Terrasym[®] 450 for Corn** is a microbial inoculant that has been proven to consistently deliver improved nutrient uptake leading to robust early season root development, enhanced tolerance of abiotic stress throughout the growing season, and higher yields at harvest.

IN-FIELD PERFORMANCE

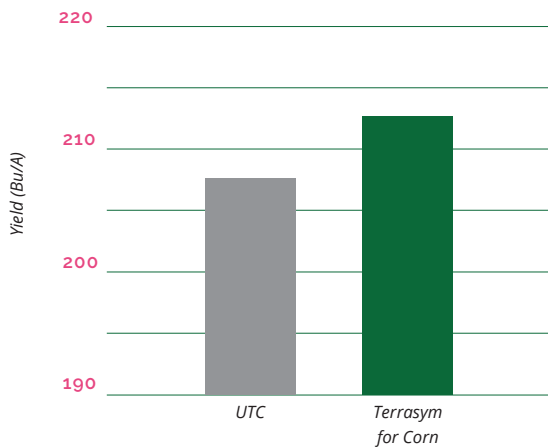


+4.5 BU/A
average
advantage

80%
win rate

20
total trials

20
unique
locations



Source: 2020 IN10T FarmerTrials[®]; All untreated checks and PPFM treatments have base fungicide and insecticide application

PRODUCT BENEFITS

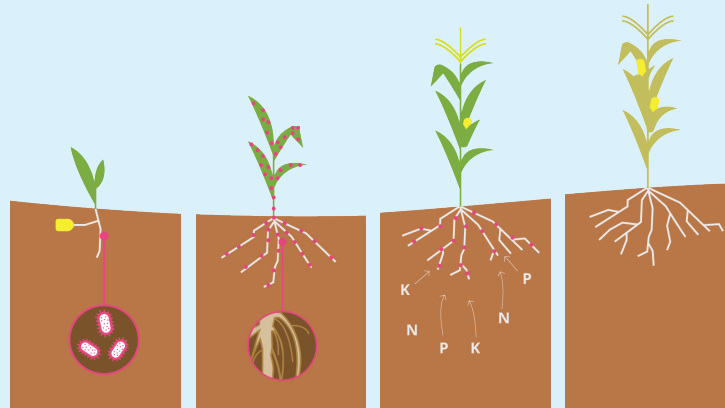
- Contains a unique strain of beneficial microbes called PPFMs, specially selected for use in corn.
- Harnesses PPFMs' natural partnerships with their plant hosts making crops more tolerant of abiotic stress while enhancing stability of performance, from planting through harvest.
- Shows improved development of corn root area by 6.7% and increased nodal root length by 9.6%, which in turn enhances nutrient acquisition.**
- Enhances nutrient uptake, showing improved leaf tissue nutrient concentration with a +17.5% increase in iron and +12.6% increase in manganese over an untreated control.
- PPFM microbes consume methanol, which can lower the energy cost for the plant to host them as symbionts.
- Features broad compatibility with 90 days on-seed stability when applied as a planter box application and 60 days when applied as overseed treatment. Compatible with all common seed lubricants and all planter types.

**For more commercial trial data,
please go to newleafsym.com**

*Source: 2020 IN10T FarmerTrials data; **Source: Combination data set from 2020 IN10T Farmer Trials[®] & 2021 Ag Ingenuity Partner Trials; All untreated checks and PPFM treatments have base fungicide and insecticide application.

HOW DOES TERRASYM 450 FOR CORN WORK?

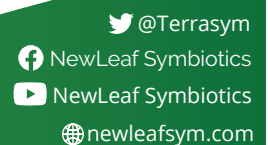
Terrasym products contain specially selected beneficial microbes called pink pigmented facultative methylotrophs (PPFMs). PPFMs establish a natural, permanent partnership with plants offering season-long benefits from planting through harvest.



1. As broad plant colonizers, PPFMs spread from the seed surface across a plant's roots and leaves.
2. PPFMs improve nutrient uptake by populating plant roots which promotes higher numbers of root tips and overall root mass in turn enhancing nutrient acquisition.
3. They also secrete beneficial molecules into the root zone that can bind and transport yield-enabling micronutrients.
4. Prolonged PPFM colonization and increased nutrient uptake result in increased chlorophyll content and enhanced photosynthetic efficiency, both of which translate to increases in yield.

ACTIVE INGREDIENTS	PACKAGING	APPLICATION INFORMATION
<p>Microbial content 2% <i>Methylobacterium gregans</i> 1×10^9 cfu/g Inert ingredients 98%</p>	<p>STANDALONE: TERRASYM 450 <i>Planter Box or Seed Treatment</i> 4, 50-unit corn jugs per case*</p> <p>COPACK: TERRASYM 450 WITH 80/20 TALC U.S.A <i>Planter Box</i> 4, 50-unit corn jugs per case*</p> <p>BLENDED: TERRASYM 450 + DUST <i>Planter Box</i> 4, 50-unit corn packets per case*</p> <p>*Each case treats 200 units or 470 acres @ 34K population</p>	<p>PLANTER BOX 0.125 oz. of Terrasym 450 per unit of corn (@80K). Mix with seed lubricant, then apply. 0.5 oz. of Terrasym 450 + DUST per unit of corn (@80K)</p> <p>OVERSEED TREATMENT 0.5 oz. (14.5g) of Terrasym 450 per 80K* kernels of corn Mixing ratio of 1:3 (1 oz. dry Terrasym powder: 3 oz. water) *80,000 kernels is equivalent to approx. one bag of corn</p>

GO TO NEWLEAFSYM.COM TO ORDER TERRASYM PRODUCTS FOR THE 2022 CROP YEAR!



Performance may vary from location to location and from year to year as local soil, climate and/or other conditions change. Always read and follow label directions. Check state registration to make sure product is registered in your state. NewLeaf Symbiotics® and Terrasym® are both registered trademarks.