



AMERICAN SOIL TECHNOLOGIES, INC.

# ANCHOR MP™

**ANCHOR MP™ effectively improves soil moisture infiltration and enhances irrigation efficiency in turf. It features a new, unique formulation of PAM (polyacrylamide) that is easier to use and mixes more quickly than other PAM products. Thanks to new technology, this concentrated formulation produces exceptional results even with lower application rates.**

## ANCHOR MP ADVANTAGE:

- Reduces soil sodium levels in top 12 inches of the soil profile
- Increases net water infiltration up to 40%
- Retains 30% to 40% more nitrogen in soil
- Reduces soil erosion by 99%
- Reduces soil crusting
- Reduces nutrient and pesticide runoff

**Reduces Irrigation  
Improves Utilization of Fertilizers  
Improves Turf Appearance**

## HOW TO APPLY

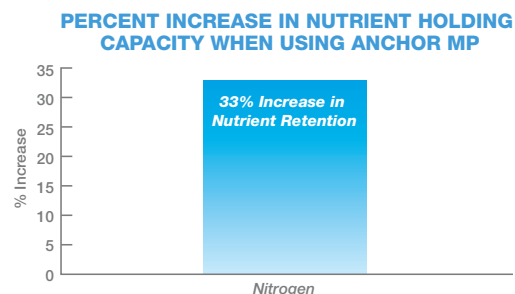
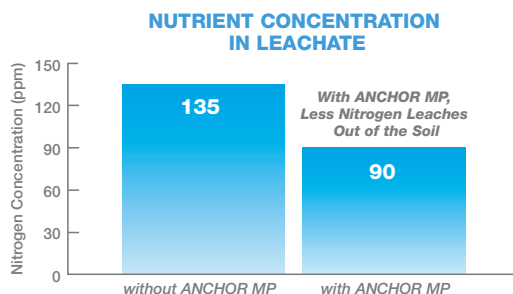
ANCHOR MP may be applied with normal application equipment. Under most conditions, 1 oz. of ANCHOR MP per 1,000 ft. should be used.

ANCHOR MP is biodegradable and non-toxic to plants and animals. It remains active for 4 to 5 weeks, then breaks down into carbon dioxide, water and ammonia through UV light exposure.

## RESEARCH SUPPORTS VALUE

The study included three laboratory treatments to demonstrate how Anchor MP works in the soil:

1. "Water only" to identify nutrients already present in the soil
2. "Fertilizer only" to establish current nutrient retention and runoff
3. "Fertilizer + ANCHOR MP" to demonstrate increased retention and decreased runoff when using ANCHOR MP



## HOW DOES ANCHOR MP WORK?



ANCHOR MP has a high molecular weight and is soluble in water.



When ANCHOR MP is in the presence of water, long microscopic chains form. Soil particles suspended in water are positively charged.



The microscopic chains of ANCHOR MP possess a negative charge.



This charge not only attracts the positively charged soil particles, but also attracts the positively charged nutrients applied through fertilization (such as  $\text{NH}_4^+$ ,  $\text{K}^+$ ,  $\text{Ca}^{++}$ , etc.).



The resulting agglomerations are too large to remain suspended and consequently are held in place in the turf. Nutrients and soil particles are attracted and bound by Anchor MP so that nutrient loss during irrigation and rain events is reduced.

Most important, as the soil particles become larger, the soil structure becomes more open. This allows water and air to better infiltrate the soil, improving irrigation efficiency.

### For more information, contact:

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