DAVISSON TURF
EST 1991

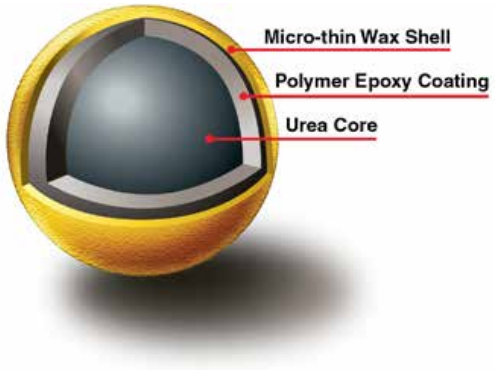
FERTILIZER • SAND • BIOLOGICAL PRODUCTS

XRT® Extended Release Fertilizer Technology

SURFCOTE® Sustained Uniform Release Fertilizer

POLYMER COATED FERTILIZERS.

- 3, 4, and 6 Month Consistent Nutrient Release
- Water Is Needed Initially To Activate Prill
- Rainfall Does Not Affect Nutrient Discharge
- Temperature Only Affects Release Delivery
- Epoxy Coating
  - Extremely Durable Coating
  - Allows For Thinner Coating
  - Stays Intact For Entire Duration
  - Thickness Determines Longevity
- Yellow Color Allows Great Visibility in Turf



FACTORS AFFECTING RELEASE:

- Moisture is the Activator
  - Releases Slow if Water Becomes Limiting
  - Release Resumes When Water is Available
  - Too Much Rain or Irrigation is ***NOT*** an Issue
  - Provides a "Rain-proofing" effect by limiting water movement in/out
- Release Mechanism—Osmotic Diffusion
  - Water Diffuses Through Barriers
  - Liquified Urea Moves Back Through Polymer Coatings (semi-permeable barriers)
- Temperature Influences Diffusion Rate
  - Warmer Temperatures = > N Release Rate
  - Cooler Temperatures = < N Release Rate
- Coating Chemistry
  - Different From Polyurethanes
  - Less Temperature Sensitive

KNOX FERTILIZER COMPANY

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VS.

PCU (POLYURETHANE COATED UREA)

PCU:

- **Usually Requires a Thicker Coating Than Other Technologies**
- **Thicker Coating Causes a Slower/Delayed Release in Cool Weather**
  - Usually requires additional straight urea or ammonium sulfate to the blend to give the turf a quick green up until the urethane coated urea kicks in.
- **The Technology allows for a More Rapid Release in Hot Weather**
- **When the Urea is Depleted, Most Likely the Urethane Coatings & Color are Still Present Giving the Illusion That the Turf is Still Getting Nutrients**
  - Empty capsules can sometimes linger around for years in the turf canopy
- **Prill Stays Spherical & May Float Away In Heavy Rain Events**

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