

University of Kentucky



LOCATION: Lexington, KY

PRODUCT: Turf Claw Polyurethane Adhesive and SportDrain_{Max}

APPLICATION: Sport Field

DATE: 2010

Consulting Engineer: Compass Turf, Hickory NC

When the University of Kentucky Wildcats take the field at C.M. Newton Field at Commonwealth Stadium, some of the most important features of the home field are not in the field of play, in fact, they are not even visible. When the 'Cats needed to replace its worn out AstroTurf sidelines, UK Facilities staff chose a low-pile, densely tufted, non-infilled turf product installed over a concrete slab. This decision required some unique solutions. UK immediately turned to the *Experts in the field*, Engineered Sportfield Solutions (ESS), who provided multiple product solutions to complete the new turf surfacing system.

Since the chosen turf surface would not receive infill, no rubber or other shock absorbing materials brushed into or between the blades of synthetic grass, the force reduction qualities would have to be engineered into the turf system. ESS' SportDrain_{Max} (SDM) was chosen to deliver optimum force reduction between the concrete slab foundation and the carpeted artificial turf surface. Using SportDrain_{Max} under the synthetic turf provided consistent and engineered impact attenuation similar to a well maintained natural surface. In addition to a cushioned natural grass-like feel, SportDrain_{Max} also offers superior drainage characteristics, which quickly draws water away from the surface moving it to perimeter drainage structures. The combination of shock absorption and drainage qualities makes SportDrain_{Max} ideal for many artificial turf system installations and especially well-suited for the C.M. Newton Field project.

Bonding SportDrain_{Max} to the concrete slab and subsequently the turf to the SportDrain_{Max} required a unique and creative solution. To accomplish adhesion of all three layers of the surfacing system, the University employed a new technology in artificial turf adhesives. Turf Claw also supplied by ESS, is a VOC-free, non-solvent-based, single-part urethane turf system adhesive, formulated specifically to bond such surfaces together in outdoor environments. Turf Claw has many environmentally-friendly characteristics, and is safer for installers than many traditional VOC-laden chemical adhesives. As the Wildcats move on and off the field they are on solid and safe footing thanks to Turf Claw, SportDrain_{Max}, and the resources of the Solutions Team at Engineered Sportfield Solutions.



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System Advantages:

- Superior permeability and transmissivity provides rapid water drainage
- Shock absorption layer provides consistent, engineered safety across entire field.
- Safe, long-lasting and environmentally friendly utilizing 99% recycled content with 0% VOCs
- Table-top Flat...Conforms to the Subgrade

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