



Recycled Foam Technologies

Under the Surface



HIGHLIGHTS

SPORT DRAIN_{MAX} INSTALLED WITH AN ORGANIC INFILL AT HAVENS ELEMENTARY SCHOOL

It is always about what the owner wants... ESS and Limonta Sport USA designed and installed a synthetic turf system using SportDrain_{MAX} with Sports Pro synthetic turf and Infill Pro Geo organic infill materials on the Haven School athletic field. The combination of these technologies produced a high performance synthetic turf system that is one of most eco friendly synthetic turf projects in the world. SportDrain_{MAX}, a drainage and impact attenuation layer, is produced from 100 percent recycled materials and is completely recyclable after its intended design life. Infill Pro Geo cork coconut infill materials are 100% natural and are completely recyclable, lead-free, and non-hazardous.

At ESS we are always excited to use unconventional technology on a synthetic turf system. It allows us to collect performance data useful to our customers, the facility owner, designers, and the sport turf professional.



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SPORT DRAIN_{MAX} AND TURF CLAW ADHESIVE USED TO ENHANCE THE UNIVERSITY OF KENTUCKY FIELD



When the University of Kentucky Wildcats needed to replace its worn out AstroTurf sidelines, the 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 could provide multiple product solutions to complete the new turf surfacing system.

Since the chosen turf surface would not receive infill, 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 underlying concrete and the artificial turf surface. Using SDM under the synthetic turf provided consistent and engineered impact attenuation similar to the neighboring well maintained natural turf surface. In addition, SDM also offers superior drainage characteristics, which quickly draws water off the surface and away to perimeter.

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, a new technology in artificial turf adhesives was employed. Turf Claw, also supplied by ESS, is a high performing, non-solvent-based, single-part urethane turf system adhesive specifically formulated to bond such surfaces together in outdoor environments. 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.

SynLok Adhesives



ESS and SynLok have combined their efforts to develop the latest in adhesives to revolutionize the synthetic turf installation industry **one seam at a time!** SynLok is an eco-friendly manufacturer of non-hazardous, nitrogen capped, polyurethane adhesives used for the installation and repair of synthetic turf systems. These proprietary adhesives and applicators were developed from years of synthetic turf experience combined with cutting-edge chemical engineering. The result is a product line that features numerous advantages to both synthetic turf installers and field owners.

Installation of synthetic turf systems

- **Turf Claw Adhesive** - viscous, single-part, moisture cured, polyurethane adhesive
 - Formulated for the seaming of indoor and outdoor synthetic turf to a variety of substrates.
 - Provides superior seam strength with the best adhesion by any single-part adhesive in the industry
 - Fright friendly with 0% VOCs or solvents
 - Quick **GREEN** Strength
 - Contains UV sensitive dyes for high visibility
 - Tacks in 30 mins, Cures in 45 mins with a Full Cure Time of 24 hours*
- **520C Adhesive** - non-hazardous, two-part, polyurethane adhesive with 0% VOCs
 - Formulated for the installation of indoor and outdoor synthetic turf using **Mix-On-Demand** technology
 - Superior Strength
 - Using the battery-operated dispenser, no mixing is required, cartridges mix and dispense the exact ratio of adhesive components to achieve superior bonding
 - Tacks in 15 mins, Cures in 20 mins with a Full Cure Time of 24 hours*
 - Apply infill in as little as 2 hours after gluing seams

Repair of synthetic turf systems

- **420C Adhesive** - non-hazardous, non-VOC, two-part, polyurethane adhesive
 - Formulated for seam repairs of synthetic turf using **Mix-On-Demand** technology
 - 420C is tested and proven to be effective for synthetic turf repairs
 - No more trying to get your turf vendor back on the project for a seam repair
 - Easy to use, no experience required
 - Repair a seam in as little as 5 minutes before a game
 - No mixing required, cartridges mix and dispense the exact ratio of adhesive components to achieve superior bonding
 - No waste of materials, remaining components in cartridges are ready for your next application, simply replace the mixer and you are ready to do your next seam repair
 - Nitrogen Capped for up to a 2 year shelf life
 - You have a choice of a manual dispenser, with a 18:1 thrust ratio, and a deluxe manual dispenser, with a 26:1 thrust ratio
 - Tacks in 5 mins, Cures in 10 mins with a Full Cure Time of 24 hours*

