



SUPERIOR SYNTHETIC TURF by LANO SPORTS

QUALITY ADVANTAGES of PU COATING

- Strong tuft bond, even when wet.
- Minimized distortion and shrinkage.
- Stable, uniform play field.
- Resistant to aggressive wear and tear.
- Ease of installation and maintenance.
- Improved durability.
- Appearance retention.

The High-Performance Polyurethane Coating

Lano Sports with **DOW**'s system technology 'ENFORCER™ sport' contributes to **performant and durable synthetic turf products.**

QUALITY ADVANTAGES

Synthetic turf that is strong and durable even when wet

Chemical characteristics at the basis of the quality advantages:

PU, unlike other backings, is not subject to any oxidation process in time. Based on the fact that there are no free chemical reactants or plastisizers left in the cured backing, neither hardening nor brittleness occurs over time.

The characteristics of the PU coating do not change over time by exposure to environmental temperature changes.

Heat, which is a catalyst in the oxidation process, has no influence as there is no chemical reaction capacity left. Consequently heat does not cause aging of the backing.

Cold does not cause significant stiffening or fragility because the glass transition temperature of PU is very low.

PU coating is hydrophobic.

PU coating is fully cured, i.e. chemically stable and inert; in brief, the backing does not age and humidity does not weaken the chemical compound of the backing significantly.

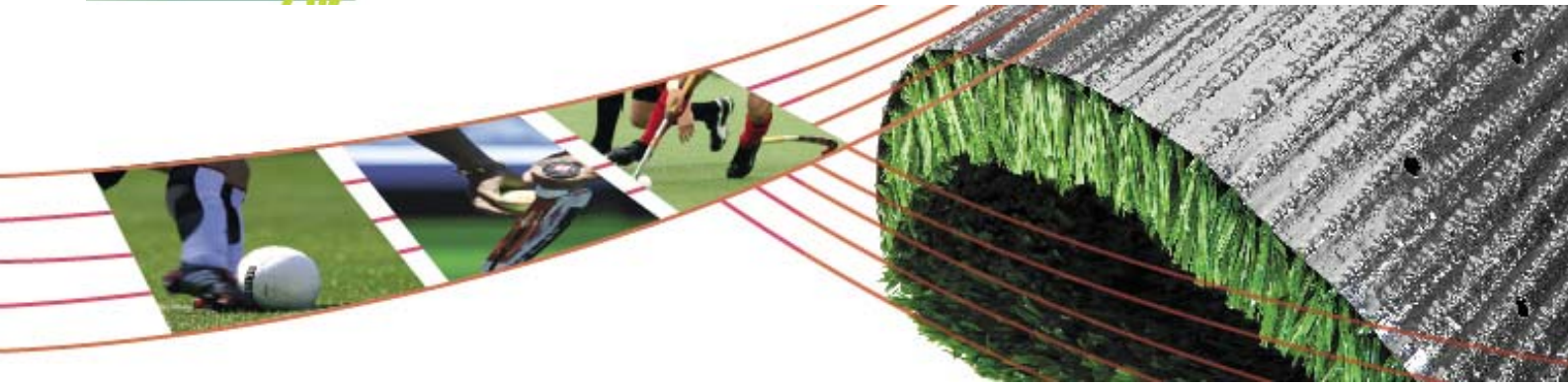
Strong tuft bond, even when wet

One of the main advantages of PU coating lies in the far better tuft lock of all the monofilament ends in every tuft, ascertaining a much better bond than the Fifa requirements.

As the chemical compound is not susceptible to aging or weakening by humidity, the backing does not suffer of hardening, brittleness or fragility over time. The tuft strength remains unchanged.

Minimized distortion and shrinkage

Synthetic turf with PU-coating has excellent dimensional stability. The chemical process of PU compound offers more precise tuning possibilities than other coating materials, resulting in a better penetration of the PU in the primary backing and tuft holes.



Stable & uniform play field

The excellent stability in combination with the flexibility of the backing results in a stable and wrinkle free playing field. The fully cured PU compound, highly resistant to aging and weakening by humidity has a superior abrasion resistance.

Resistant to aggressive wear & tear

Given the far better tuft lock in comparison with other coatings, the risk of individual yarn ends being uprooted has been largely reduced. The chemical and heat stability of the backing protects against premature aging.

Ease of the installation & maintenance

As the backing does not stiffen significantly under the influence of lower temperatures, the synthetic turf is easier to manipulate and thus to install. An additional advantage is that wrinkles that might have been caused during transport are not fixed. The limitations regarding the gluing process remain the same, but the synthetic turf is easier to handle in unfavorable temperature conditions. As the backing does not age, the tuft bond does not decrease in time, avoiding excessive pile loss during maintenance over the years.

Improved durability & appearance retention

Even when the turf is wet, PU coating delivers excellent tuft bond and dimensional stability. It effectively locks the fibers in place to the backing, allowing for improved durability and longer life. Plus, it minimizes the possibility of distortion and shrinkage. The outcome is a uniform and predictable playing field that is designed to retain its appearance.



A backing made with Dow's ENFORCER™ Sport polyurethane system is the ideal solution for applications where performance and durability are important.

Dow polyurethane systems for artificial turf offer the best in safety, comfort and durability. Polyurethane backings from Dow increase tuft strength and improve your product's overall performance.