Piemonte, Italy: the soccer field of Bardonecchia changes uniform (and changes it again...)

(Images in high resolution available upon request)

July 2011 – The football stadium in the mountain community of Bardonecchia in Val di Susa, in the province of Turin (Northern Italy), has been significantly changed for the workout needs during the summer retreat of a leading football team of Italian A Series (“Serie A”). On the existing field made with synthetic grass in 2007, DuPont™ Typar® geosynthetic has been laid and, above it, a mantle of natural turf. Thanks to the use of DuPont™ Typar®, the football field made with natural turf has higher quality planar surface, optimal drainage capacities and great stability. Once the summer retreat is over, the field can be dismantled and the synthetic grass will once again be revealed on the surface.

The Bardonecchia municipality, the owner of the soccer field, was looking for a solution that would allow the use of natural grass, while at the same time avoiding the complete dismantlement of the field and the synthetic turf normally used owing to local meteorological conditions and the altitude of 1,300 meters.
The solution to satisfy the field’s year-round permanent use needs and the specific 2011 summer retreat requirements was the placement of high-tech DuPont™ Typar® geosynthetics on top of the synthetic turf, followed by the installation of a natural turf. In such a configuration, the DuPont™ Typar® acts as a separating filter that protects both the new and original turf structures, as well as providing high stability for the entire field.

Installation of DuPont™ Typar® on the ground of Bardonecchia’s football field; photos by Bruno Marabotto, all rights reserved.

This DuPont geosynthetic is easy to handle and install and the application process took only one day. In case of rain, DuPont™ Typar® allows rainwater to flow naturally without stagnation that would compromise the natural grass’ quality and cause yellowing. Its high permeability permits water filtration and the synthetic field’s underlying drainage system lets it drain.

Applying the natural turf upon DuPont™ Typar® geosynthetics; photos by Bruno Marabotto, all rights reserved.

The project was conceived by Bruno Marabotto, a sports buildings surveyor for the city of Turin, who also directed the work for this endeavor.

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DuPont™ Typar® acts as a protection to the underlying field, preventing the natural grass’ turf roots and soil from entwining with the synthetic turf below. Furthermore, DuPont™ Typar® provides protection for the natural turf, making it easy to remove for future use. The high traction resistance of DuPont™ Typar® allowed the passage of heavy machines to flatten and perfectly even out the field’s surface.

DuPont™ Typar® geosynthetic material is composed of continuous polypropylene filaments bound by a thermal process originating from a unique technology which provides the material superior uniformity and rigidity characteristics, as well as elevated elongation and initial modulus. It is widely used as reinforcement in road constructions, as a separating filter in drainage systems and in landscape architecture.

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building and architecture, roads, bridges and other infrastructures and also gardens, as well as to the preservation or the renovation of existing and historical constructions.

Tests done on a scale model before the installing the natural grass. The test was done in order to assess the precise permeability performance of DuPont™ Typar®; photographs by Bruno Marabotto, all rights reserved.

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