

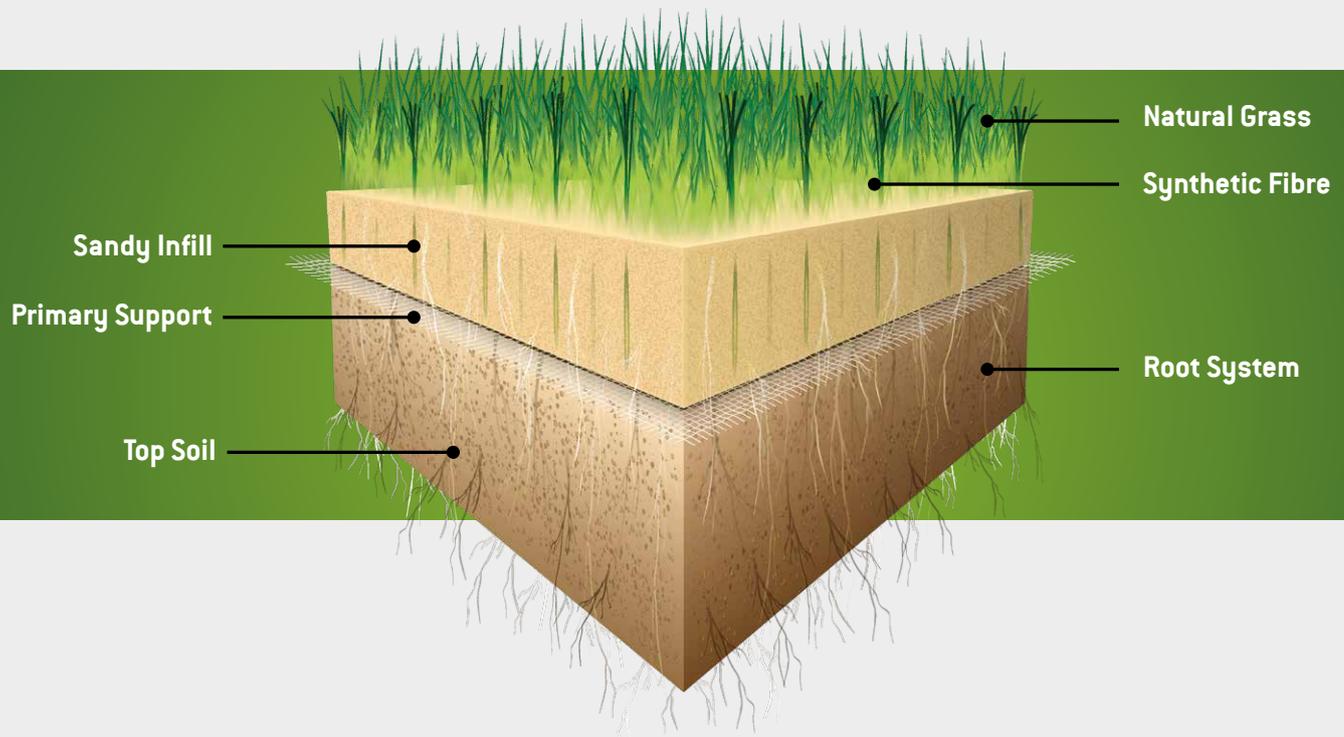
# mixto®

hybrid grass technology



CREATING AND MAINTAINING LANDSCAPES

# mixto®

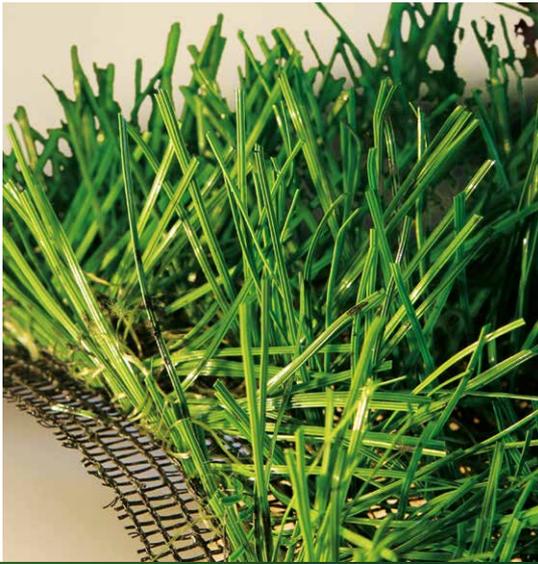


**3x more playing time than natural grass**



**Technology Made in Italy**





Mixto is a reinforced natural hybrid surface, specifically designed to serve a variety of needs for sports surfaces. It consists of a synthetic and a natural grass component, where the artificial matrix is perfectly designed to better promote the germination, growth and development of the natural grass.

This composite system creates the right conditions for perfect oxygenation, permeability of the surface layer and an ideal air-water-soil balance, whilst also preventing the formation of muddy areas or waterlogging.

Mixto provides stability, permeability and maximum safety for athletes, with reduced maintenance costs compared to 100% natural surfaces.

# MIXTO: A PERFECT BLEND OF NATURAL AND ARTIFICIAL TURF

NOW PERFECTLY BLENDED WITH *idverde* FOR DELIVERY AND MAINTENANCE  
SUPPORT IN THE UK



*idverde* is the UK and Europe's leading specialist supplier of green services, delivering expert grounds maintenance, landscape construction, sports surfaces, arboriculture and civil engineering services for a range of public and private sector customers.

Operating from a network of 100+ locations throughout the UK, the *idverde* team is perfectly placed to deliver installation and ongoing maintenance support to Mixto customers.





# COMPLETE SYNERGY BETWEEN NATURE AND TECHNOLOGY



The Mixto system creates a bond between the synthetic fibres and natural grass, which is anchored to the special primary support system. This ensures maximum surface stability and prevents both snags and divoting during play.

The added strength from the artificial turf and support system improves the durability of the surface, with playing time increased to around three times that of natural turf. This is achieved without any noticeable change in surface performance for players, as the overall impression is almost identical to that of fully natural turf, albeit with increased stability underfoot.

# STRENGTHS

01

## SURFACE CONSISTENCY

Regular use does not compromise Mixto's perfect playing quality.

03

## RESISTANCE

The added strength of the artificial grass reduces the wear on the natural grass, enables faster surface recovery after play, and gives unrivalled season-long playing hours.

05

## TECHNICAL PERFORMANCE

Smoothness, bounce, player and ball interactions are optimal, in addition to outstanding stability.

07

## COST EFFECTIVENESS

Mixto delivers high economic sustainability. The ratio of investment / hours of use is better and highly competitive compared to that of other hybrid systems. Maintenance costs are also greatly reduced.

09

## HIGH FLEXIBILITY

The system allows for a variety of different uses beyond sports (such as events or concerts). Any localised damage can be quickly repaired as small areas of Mixto are easy to carry out.

11

## RENOVATION & REGENERATION

The system can easily undergo multiple seasonal regeneration operations if required.

02

## PERMEABILITY

The system uses materials that guarantee no change in permeability of the substrate.

04

## SAFETY

The stable and uniform playing surface reduces the risk of accidents. The hardness value (Clegg hammer) can be managed as required.

06

## EASE OF MAINTENANCE

Day-to-day maintenance is the same as required for natural grass, but Mixto is easier to manage during the recovery stage.

08

## INSTALLATION/USE

Through sowing: end to end installation time of 7-8 weeks.

By laying turf rolls that have been pre-grown in our nurseries: immediate use, convenience and speed of installation even for the smallest replacements.

10

## COMPATIBILITY

The system is compatible with most existing sub-bases.





# CASE STUDY

## SHEFFIELD UNITED FOOTBALL CLUB

Shirecliffe Training Ground - Sheffield United FC

**CLIENT:** Sheffield United Football Club

**SPECIFICATION:** Install secondary drainage system; upgrade and extend irrigation system; install two Mixto hybrid turf pitches - **Total Area: 14,000m<sup>2</sup>**

**START DATE:** August 2019

### THE PROJECT

In July 2019, *idverde* Sports Surfaces were commissioned by Sheffield United FC to install two Mixto hybrid turf pitches at their Shirecliffe Training Ground. Sheffield United FC represent the first Premiership client that *idverde* have worked with.

Due to the time of year that the work commenced, the *idverde* team faced the challenge of ensuring the job was complete and the pitches were seeded in time to take advantage of the remaining grass growing season.

As there was already an efficient primary draining system in place, *idverde* were responsible for improving the surface drainage. To do so, the team installed gravel bands at 250mm intervals, across the whole site, making two diagonal passes.

In conjunction with this, the *idverde* team also upgraded the irrigation system to ensure that once complete, the whole of the Mixto surface would be covered by the irrigation.

Prior to installation of the Mixto Carpet, around 500 tonnes of Rootzone was imported, spread and levelled upon the existing sub-surface, ensuring good drainage and a well aerated root zone.

The Mixto was to be installed across the whole of the site not just the pitches; the dimensions of the site were irregular. In order to ensure ease of installation, and that there were no lateral joints and no wastage, the Mixto carpet was specially manufactured in Italy so that it was made to fit the site's specification perfectly.

The Mixto carpet was infilled with 600 tonnes of Mansfield Sand in record time and the pitches were seeded on the 23<sup>rd</sup> August.

Once *idverde*'s sports surfaces team had completed the job, the pitch was left in the expert care of Sheffield United FC's Head Groundsman, Kelly Barrowclough, and his team. Within seven weeks the pitches were in use!

# FAST INSTALLATION SOLUTIONS



## MATERIALS

Our unique 'S' profile Low Density Polyethylene fibres are combined with a natural matrix, which is carefully selected for each installation.

## PLAYABILITY

Mixto allows athletes to play safely from the first day after turf laying, achieving excellent levels of technical performance, e.g. hardness, smoothness, bounce, athlete-surface and ball-surface interaction.

## SERVICE

The experience and know-how of our specialists in the UK, France and Italy ensures the best fit for your needs in the design, installation and aftercare phases.

Our professional and technical support ensures high levels of performance from the playing field over time.

## MAINTENANCE

idverde can provide expert ongoing maintenance and support of the Mixto system from a UK-wide network of locations.

Mixto is a system suitable both for the construction of entirely new pitches or the resurfacing of existing natural grass pitches.

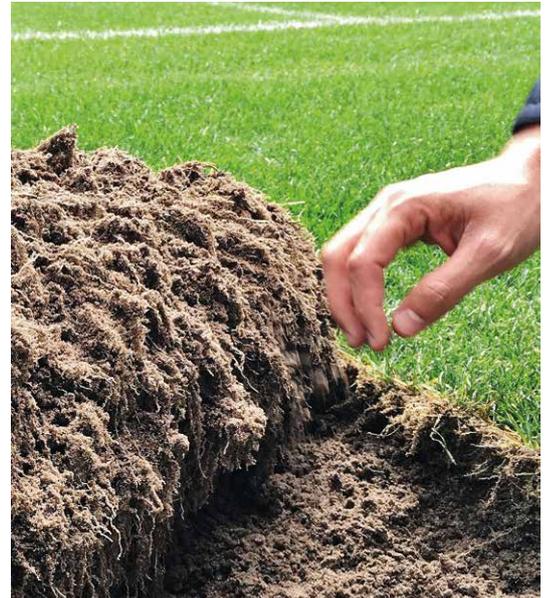
## ON SITE SEEDING:

Mixto system installation with seeding on location is ready for use after 7-8 weeks. The use of certified materials for sub-soil construction and following the correct technical procedures enables this.

## LAY & PLAY METHOD:

Pre-cultivated turf (big rolls) from our network of nurseries can be quickly laid for immediate use.

This characteristic of the Mixto system makes it flexible and highly adaptable. It also enables partial replacements or repairs to be carried out if required.



# QUALITY SURFACES LEAD TO TOP RESULTS



# CASE STUDY

## PORTSMOUTH FOOTBALL CLUB

Portsmouth Football Club

**CLIENT:** Portsmouth Football Club

**SPECIFICATION:** Improve drainage system, install and maintain a new pitch.

**START DATE:** July 2019

**FIRST GAME:** 6<sup>th</sup> August 2019 against Birmingham (3-0)

## THE PROJECT

Over the last few years, Portsmouth FC have been experiencing problems with the drainage and stability of their pitch. *idverde* contacted Portsmouth FC's team to discuss how Mixto could help improve their pitch.

In April 2019, *idverde* were commissioned to improve the drainage system and also install a new Mixto Surface.

The first action was to install gravel bands into the pitch at 250mm centres to enhance the underlying drainage system, this was completed using a Blec Vibra Sand Master.

The existing surface of the pitch was then removed using the Koro making sure that all vegetative material was completely removed leaving a flat surface free of any organic matter. All the work up to this point was carried out through extremely poor wet weather, this was a challenge in itself to make sure that we did not damage the underlying network of the pitch.

Around 250 tonnes of Rootzone was then spread onto the surface and brushed to improve any local levels and fill any depressions.

A Mixto Hybrid carpet was then placed and positioned over the entire area, making sure that there were no gaps and that the carpet was lying flat to the surface of the pitch. 550 tonnes Mansfield Sand was then applied to the Mixto carpet and carefully brushed into the pile, ensuring the team didn't move or distort the Mixto in any way, standing the pile up whilst doing so to make sure that the fibres in the Mixto were not trapped beneath the sand but were at the surface where they are required.

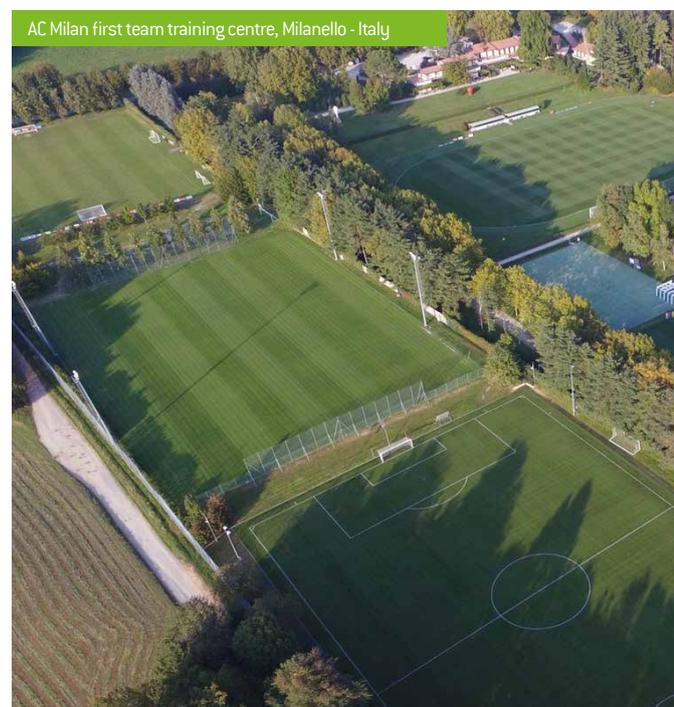
On completion of the sand fill, the pitch was then seeded within 6 weeks before the first game to make sure the pitch was ready for the game. Fertiliser applications were managed by Matt Frost and his team at Portsmouth FC.



Peterborough United FC, ABAX Stadium - United Kingdom



Modena FC, A. Braglia Stadium - Italy



AC Milan first team training centre, Milanello - Italy



Peterborough United FC - ABAX Stadium

# CASE STUDY

## PETERBOROUGH UNITED FOOTBALL CLUB

### THE PROJECT

Peterborough United Football Club (“The Posh”) is going strong in its race for the Championship, with help from two new Mixto hybrid turf pitches, installed and maintained by idverde.

Following its UK launch at BTME exhibition in Harrogate in January 2018 idverde was approached by Peterborough United Football Club to discuss the installation and ongoing maintenance of two new pitches at the Club.

Peterborough United, in common with many League One and League Two clubs, had sometimes struggled to maintain a modern standard of playing surface at its main stadium and training facility. idverde was delighted to install new pitches, ensuring they were ready for the first game on 28<sup>th</sup> July 2018, despite the challenges of installing during the hottest summer on record!

**Dean Tingley, Mixto’s Project Manager says:**

*“Mixto was a great choice for The Posh. The added strength from the artificial turf improves the durability of the pitch, with playing time increased to around three times that of natural turf. This is achieved*

**CLIENT:** Peterborough United Football Club  
**SPECIFICATION:** to supply, install and maintain two pitches  
**CONTRACT DURATION:** 5 years  
**START DATE:** 4<sup>th</sup> June 2018  
**FIRST GAME:** 28<sup>th</sup> July 2018

*without any noticeable change in surface performance for the players as the surface appears the same, albeit with increased stability underfoot.”*

One of the biggest tests of the season came in September 2018 when Peterborough as Sky Bet League One leaders on fixture day were playing second in League, Portsmouth. The idverde ‘Posh team’ worked hard to provide fantastic pitch conditions for this important game attended by nearly 11,000 supporters. The pitch was double cut using two Dennis G860 mowers on Friday, mowed again on Saturday morning, before being marked out and watered again ready for the afternoon’s game. The pitch looked outstanding ahead of the game and held out extremely well, without divots or any visible wear from the game. Feedback from the Stadium Manager was simply “*I don’t have to worry about the pitch anymore.*” What better compliment for Mixto and the idverde ‘Posh’ team!

idverde now maintains all POSH’s pitches at the ABAX Stadium and Nene Park/Mick George Academy.



*“When implementing professional pitches in large stadiums, stability can become a critical issue given the time restraints, the weather conditions and the high frequency of use...”*

*“I chose the Mixto system for the Real Madrid pitch at the Santiago Bernabéu stadium because I believe that this system will certainly satisfy the team’s requirements and all the challenges, right from the beginning.”*

**Paul Burgess**, Groundsman at Real Madrid C.F

## INSTALLATIONS WORLDWIDE

### Azerbaijan

Affa Dalga training ground

### Belgium

Club Brugge, Jan Breydel Stadium  
Kaa Gent, Ghelamco Arena  
Club Brugge, training ground

### China

Shanghai Central Park, training center  
Kunming, training center  
Hainan Haikou Stadium

### Costa Rica

Liga Deportiva Alajuelense 1  
Liga Deportiva Alajuelense 2  
Liga Deportiva Alajuelense 3  
Liga Deportiva Alajuelense 4

### Croatia

HNK Rijeka Main Stadium  
HNK Rijeka, training center field 1  
HNK Rijeka, training center field 2  
Lokomotiva Stadium, Zagabria  
Dinamo Stadium, Zagabria  
NK Stadium, Pula

### Denmark

Brøndby IF, Brøndby Stadium

### France

Asm Clermont Auvergne Rugby  
Saint Paul sur Mer, training ground  
OGC Nice, Allianz Riviera Stadium  
Dole Stadium  
Licorne Stadium, Amiens  
Espaly-Saint-Marcel Stadium

Mandelieu la Napoule Rugby Stadium

Le Mans MMArena

### Germany

Mommenheim Municipality, training ground  
Unkel Municipality, training ground

### Holland

Ajax Amsterdam, Amsterdam Arena

### Iraq

Al Kut Stadium  
Alhabibya Stadium, Baghdad

### Italy

AC Milan youth team training centre, Vismara, Italy  
AC Milan first team training centre, Milanello, Italy  
Hellas Verona FC, Antistadio Verona  
FC Internazionale, Pinetina training centre  
FC Internazionale, G. Facchetti training centre Field 1  
FC Internazionale, G. Facchetti training centre Field 2  
US Sassuolo training centre  
AC La Spezia Stadium A. Picco  
AC La Spezia, training centre Field 1  
AC La Spezia, training centre Field 2  
Arena Civica Milano  
Modena FC, A. Braglia Stadium

### Mexico

Pachuca Stadium

### Poland

Lodz  
Gdansk Arena

### Russia

F.C. Dynamo, Moscow Stadium  
Krestovsky Stadium, St Petersburg

### San Marino

Federazione San Marino Stadium

### Saudi Arabia

Riyadh, Malaz Stadium

### Spain

Real Madrid CF, Santiago Bernabeu Stadium  
Athletic De Bilbao, San Mamés Stadium

### Sweden

Myresjöhus Arena  
Malmö, training center  
Gothenburg, training center

### Switzerland

Servette FC, Geneve Stadium

### United Kingdom

Queens Park Rangers, training ground  
Watford FC, training ground  
Peterborough United FC, ABAX Stadium and training grounds, Mick George Academy  
Sheffield United FC  
Portsmouth FC

## MIXTO CHOSEN FOR WORLD CUP 2018!

The Mixto system was chosen for the Krestovsky Stadium in St Petersburg, which has hosted Group 2, plus quarter and semi-final matches in the 2018 FIFA World Cup.



# mixto®



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