

**Project:**

Waterproofing sports facility roofs and associated areas at UNEATLANTICO

**Location:**

Santander, Cantabria, Spain

**Project completed:**

2020

**Owner/s:**

European University of the Atlantic (UNEATLANTICO)

**Applicator/Contractor:**

Aplinor Systems Xpray-tech, S.L

**Market sector:**

Nonresidential building

**Products used & amounts:**

MasterSeal Roof 2111  
1,250m<sup>2</sup>

## European University of the Atlantic Waterproofing with MasterSeal Roof 2111



MasterSeal Roof 2111 waterproofing on sport area in UNEATLANTICO in Santander, Spain.

### The background

The European University of the Atlantic (UNEATLANTICO) is an academic institution of higher education located in the Science and Technology Park in Cantabria.

The University's new sports complex combines a 7,000 m<sup>2</sup> roofed sports area and a 3,000 m<sup>2</sup> outdoor area with artificial turf.

The outdoor and indoor facilities have been designed to support students studying degrees in Physical Activity and Sport Sciences. It is also a leisure facility for all the students on the campus.

The new facilities had been recently built on top of the underground car park, which is also part of the Science and Technology Park.

### The challenge

Due to the unique form of the roofs of the new facilities and a lack of watertightness in the existing prefabricated waterproofing system, the roofs were leaking which was affecting the car park underneath.

To overcome this problem, specifiers were looking for a liquid waterproofing system which would form an elastomeric membrane. The membrane had to totally adhere to the substrate and could also be applied to hydraulic tiles.

There was also a requirement to completely waterproof the roofs' concrete supports, the perimeter area at ground level, and the upper surface of the roof's metal anchors, which required the use of suitable primers.

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# European University of the Atlantic (UNEATLANTICO)

## Waterproofing with MasterSeal Roof 2111



MasterSeal Roof 2111 waterproofing on sport area in UNEATLANTICO in Santander, Spain.

### Our solution

The chosen solution was a high performance MasterSeal Roof System, based on MasterSeal M 811, a hot sprayed, two-component, hybrid polyurea membrane with a high capacity for elongation and absorption of static and dynamic cracks.

Joints were sealed with MasterSeal NP 474 mastic. Surfaces were primed with MasterSeal P770 primer which is suitable for wet substrates and for metallic substrates.

Finally, a one-component polyurethane topcoat, MasterSeal TC 259 in grey was applied on the whole exposed surface. This is stable to UV rays, due to its aliphatic chemical structure.

### Benefits to the customer

- MasterSeal Roof 2111 system is a 100% bonded system which means that any leaks can be immediately identified, since water cannot move around between membrane and substrate.
- Rapid execution with hot-spraying machine and fast hardening reduced the execution time of the works.
- MasterSeal M 811 is a hybrid polyurea that provides higher elasticity and deformation capacity compared to other types of membranes.
- Seamless system adaptable to any surface and material with the use of specific primers.

### Project facts at a glance

- A total area of approx. 1,250 m<sup>2</sup> was waterproofed with MasterSeal M 811.

### Master Builders Solutions by MBCC group

The Master Builders Solutions brand expresses MBCC Group's expertise in providing customized chemical solutions for new construction, maintenance, repair and restoration of structures.

Master Builders Solutions is built on the experience gained from more than a century in the construction industry. At the core of the Master Builders Solutions brand is the combined know-how and experience of a global community of construction experts, who connect with you to solve all your construction challenges.

Further information is available at:

[www.master-builders-solutions.com/es](http://www.master-builders-solutions.com/es)