

**Project:**

Protection and waterproofing  
for buffer tanks

**Location:**

Gijón (Asturias – Spain)

**Project completed:**

2019

**Owner/s:**

Arcelor Mittal

**Applicator/Contractor:**

JCN

**Designer/Architect/Specifier:**

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**Market sector:**

Industry

**Products used & amounts:**

MasterSeal 7000 CR system

## ARCELOR MITTAL GIJÓN

### Buffer tank protection with MasterSeal 7000 CR system



Chemical protection for reinforced concrete tanks using MasterSeal 7000 CR system (Asturias Spain)

#### The background

ArcelorMittal is a major worldwide supplier of steel products in all major markets, and a major iron ore producer.

Arcelor Mittal has two factories in the region of Asturias in the north of Spain: in Gijón and in Avilés, both close to harbor facilities.

In the factory in Gijón, a new group of 6 new tanks to collect and contain used water from the factory, potentially containing several chemicals required concrete protection.

#### The challenge

The main challenge in this case was select a protective membrane with high and wide chemical resistance that could be installed successfully under difficult application conditions.

First, as an outdoor application being done in the north of Spain where high humid cloudy days, fog and rainfall are quite frequent.

Second, big size of the surface to be protected required a system that could be sprayed to ensure completing the job in a minimal period of time.

And third, mechanical treatment using water jetting was the preferred substrate preparation method.

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# ARCELOR MITTAL GIJÓN

## Buffer tank protection with MasterSeal 7000 CR system



Prime coat with MasterSeal P 770 and final finish after having installed the MasterSeal M 790 membrane.

### Our solution

Considering all project requirements, but also the application limitations, a system which could be spray applied and tolerate residual moisture in the substrate when applied directed the choice to MasterSeal 7000 CR.

MasterSeal 7000 CR system was then applied in line with EN 1504-2 while fulfilling all the project requirements.

### The customer's benefit

MasterSeal 7000 CR system is based on Xolotec technology, which achieve unique properties for polymer membranes:

- High chemical resistance.
- Crack-bridging capability.
- High mechanical resistance.
- High tolerance of moisture in the substrate and air humidity in the environment during application.
- Can be applied manually or sprayed.
- Swift application and quick commissioning.

### Projects facts at a glance

- The project comprised six rectangular and circular reinforced concrete tanks with total operational surface of approx. 12,000 m<sup>2</sup>.
- Using MasterSeal 7000 CR achieves project protection requirements with up to 50% lower consumption compared to other solutions on the market (which in this case represented 12,000 kg less product to be applied).

### Master Builders Solutions by MBCC Group

The Master Builders Solutions brand brings all of our expertise together to create chemical solutions for new construction, maintenance, repair and renovation of structures.

Master Builders Solutions is built on the experience gained from more than a century in the construction industry. The know-how and experience of a global community of construction experts form the core of Master Builders Solutions. We combine the right elements from our portfolio to solve your specific construction challenges.

Further information is available at:

<https://www.master-builders-solutions.com/es-es>