

**Project:**

Chemical protection for draining tanks used to treat wastewater at the As Pontes thermal power plant.

**Location:**

Puentes de García Rodríguez – A Coruña (Spain)

**Project completed:**

2019

**Owner/s:**

ENDESA Generación S.A.

**Applicator/Contractor:**

HUSO29 - INERCO

**Designer/Architect/Specifier:**

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**Market sector:**

Civil engineering –  
Water management

**Products used & amounts:**

MasterSeal 7000 CR

## AS PONTES THERMAL POWER PLANT

### Chemical protection for draining tanks



General view of the thermal power plant

#### The background

As Pontes power station is a four-unit coal-fired power plant with a total capacity of 1,468.5 MW. The plant was completed between 1976 and 1979 and is owned by Endesa Generación (Enel).

The project is part of the investment to adapt the plant to meet the requirements of the EU Industrial Emissions Directive (IED). This directive requires to denitrify and remove sulphur from combustion gases (NOX and SOX) released into the atmosphere.

The aim was to provide chemical protection for three tanks and a retention basin covering a total area of 800 m<sup>2</sup>.

#### The challenge

The three tanks are draining and separation tanks for ammonia and bleaches, the by-product derived from the NOx neutralization process using urea, a similar process that AdBlue uses in cars. This is where the by-product undergoes flocculation and is discharged into sedimentation tank for separation and processing.

In addition to the required high chemical resistance of the protective membrane, the weather conditions in northern Spain where high humid cloudy days, fog and rainfall are quite frequent, required a system that could tolerate moisture in the substrate when applied.

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# AS PONTES THERMAL POWER PLANT

## Chemical protection for draining tanks



Tank application MasterSeal 7000 CR

### Our solution

Considering all project requirements, but also the application limitations, a system which could 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 Xolutec 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

- Approx. 800 m<sup>2</sup> of treated surface.
- Three tanks and one inspection box have been protected with the MasterSeal 7000 CR system.

### 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>