

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

Market sector:

Civil engineering –
Water management

Products used:

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 m².

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.

Contact:

BASF Construction Chemicals España, S.L.
Carretera del Mig nº 219
08907 L'Hospitalet de Llobregat (Barcelona)
Tel: +34 93 261 61 00
Fax: +34 93 261 61 09
E-mail: basf-cc@basf-cc.es

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.

Benefits to the customer

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.

Project facts at a glance

- Approx. 800 m² of treated surface.
- Three tanks and one inspection box have been protected with the MasterSeal 7000 CR system.

Master Builders Solutions from BASF

The Master Builders Solutions brand expresses BASF'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 BASF construction experts, who connect with you to solve all of your construction challenges.

Further information is available at:

www.master-builders-solutions.basf.es/es-es