

Project:

Protection and waterproofing for
buffer tanks

Location:

Gijón (Asturias – Spain)

Project completed:

2019

Owner/s:

Arcelor Mittal

Applicator/Contractor:

JCN

Market sector:

Industry

Products used:

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.

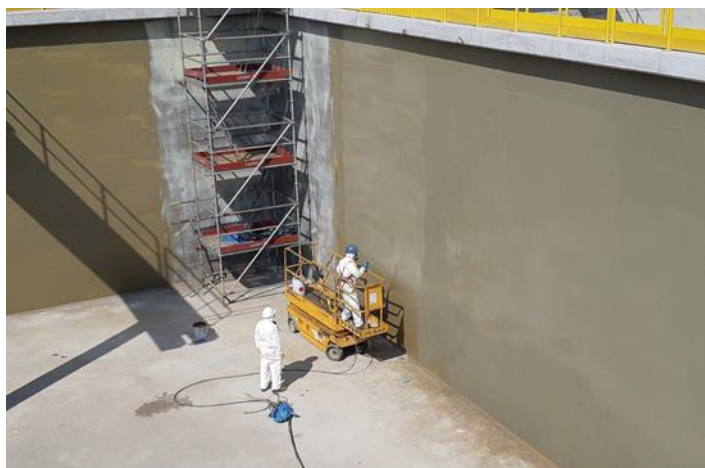
And third, mechanical treatment using water jetting was the preferred substrate preparation method.

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

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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.

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.

Projects facts at a glance

- The project comprised six rectangular and circular reinforced concrete tanks with total operational surface of approx. 12,000 m².
- 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 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