



# SIKA AT WORK

BUFFER TANKS, ARCELOR MITTAL,  
GIJÓN, SPAIN

CONCRETE PROTECTION: Sikagard®-7000 CR

BUILDING TRUST



# CHEMICAL PROTECTION FOR REINFORCED CONCRETE TANKS



## PROJECT DESCRIPTION

Project name: Protection and waterproofing for buffer tanks  
Location: Gijón, Asturias, Spain

Arcelor Mittal 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.

## PROJECT REQUIREMENTS

The main challenge in this case was to 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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## SIKA SOLUTIONS

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

## CUSTOMERS BENEFIT

Sikagard®-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

## PROJECT 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 Sikagard®-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).

## PROJECT PARTICIPANTS

Project Owner: Arcelor Mittal  
Applicator/Contractor: JCN

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