

Project:
 EDAR Viveros de la Villa

Location:
 Madrid (Spain)

Project completed:
 2014

Owner/s:
 Canal Isabel II

Applicator/Contractor:
 Eurocobel98 / Sofisa

Designer/Architect/Specifier:
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Market sector:
 Water Management Industry

Products used & amounts:
 MasterTop P 617
 MasterSeal M 689

EDAR Viveros de la Villa

Secondary containment in a wastewater treatment plant



Our reference in Madrid (Spain): EDAR Viveros de la Villa

The background

The treatment plan Viveros de la Villa is located on the north of Madrid area and treats the wastewater coming from the region.

This treatment plant has also a regeneration installation to produce water for irrigation in parks and recreation areas in Madrid and a digester that produces biogas.

The plant is publicly owned and operated by SADYT for a period of four years after the completion of the jobs.

The challenge

The main request in this case was the protection of the secondary containment for typical reagents that are used as coagulants and pH stabilizers in wastewater treatment plants (Ferric Chloride, Sodium Hydroxide and Sulphuric Acid).

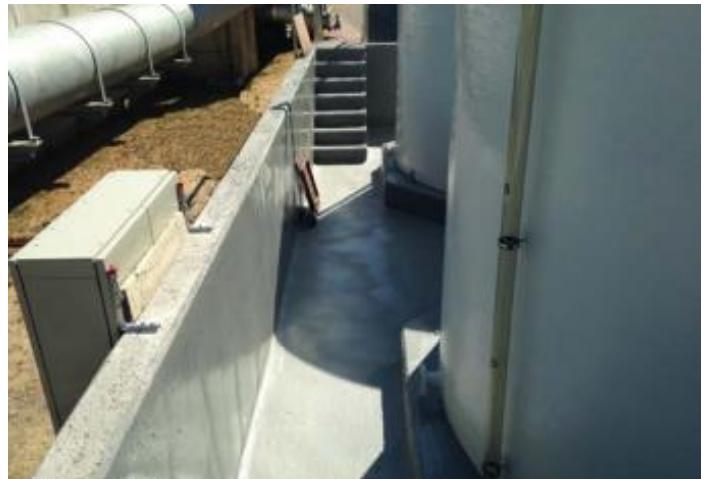
Additionally, the application in complex surfaces with several corners, detailing, pipes, etc. required a solution that could be applied in an effective way to ensure the continuity of the membrane around all these details.

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Our solution

The proposed solution was to apply a hot spray polyurea membrane: MasterSeal M 689.

The membrane was applied on a properly treated and cleaned concrete surface after the application of MasterTop P 617 primer used to ensure adhesion and to seal concrete pores.

MasterSeal M 689 was applied by means of a suitable two component heated, high pressure, proportioning spray equipment. The application was done by an expert company that could solve all technical requirements at the jobsite.

The customer's benefit

- After hardening, MasterSeal M 689 forms a continuous membrane without seams and joints.
- Excellent long-term chemical resistance combined with very high elasticity that prevents damages in membrane due to cracks or movements in substrate.
- MasterSeal M 689 can be used outdoors without topcoat as it is resistant to UV (with only minor aesthetical yellowing) offering maximum performance in terms of chemical resistance.
- Very fast curing. MasterSeal M 689 membrane is sprayed and formed in seconds and allows application of vertical and horizontal surfaces in one step. The treated surfaces can be back to service only after a few hours.

Projects facts at a glance

- Total treated surface: 450 m²
- Total sprayed membrane: approx. 950 kg
- Time to return to service: less than 24 hours

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