

**Project:**

Loaysa water tank

**Location:**

Granada (Spain)

**Project completed:**

2015

**Owner/s:**

Confederación Hidrográfica del Guadalquivir - EMASAGRA

**Applicator/Contractor:**

REEPOX

**Market sector:**

Drinking water industry

**Products used & quantities:**

MasterSeal 6100 FX –

24,000kg

MasterSeal 531 – 28,000 kg

MasterSeal 930 – 1,500 m

MasterSeal 933 – 1,500 kg

MasterSeal NP 474

MasterEmaco S 5400

## LOAYSA Water Tank

### Waterproofing with MasterSeal 6100 FX and joint sealing



Our reference project in Granada (Spain): Loaysa Water Tank

#### The background

Construction of a new water tank for the storage and supply of drinking water for the city of Granada and the surrounding area.

The rectangular tank has a capacity of up to 60,000 m<sup>3</sup>. It is divided in three smaller tanks separated by inspection galleries.

Each section of the tank has a surface area of 47.20 x 59.20 m

#### The challenge

A complete solution to reliably prevent water leakage not only through the concrete structure but also through the joints.

This called for the combination of different products with specific properties applied by an expert contractor to ensure a solution with maximum performance.

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# LOAYSA Water Tank

## Waterproofing with MasterSeal 6100 FX and joint sealing



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### Our solution

Following a detailed analysis of the specific requirements, the following procedure was adopted in accordance with EN 1504.

- Surface preparation and smoothing with MasterSeal 531 rigid waterproofing slurry.
- Structural repair, where needed, using MasterEmaco S 5400 thixotropic structural repair mortar.
- Waterproofing and protection of soffit with MasterSeal 531.
- Sealing of movement joints exposed to water pressure with MasterSeal 930 elastic tape, fixed with MasterSeal 933 epoxy adhesive.
- Sealing of joints exposed to low water pressure and/or little movement with MasterSeal NP 474 single-component polyurethane mastic.
- Complete waterproofing of slab and walls with MasterSeal 6100 FX single-component elastic membrane.

### Benefits to the customer

- Complete solution including concrete repair, surface waterproofing and joint treatment with compatible products offered by one single supplier.
- MasterSeal 6100 FX offers high waterproofing capabilities, even up to 5 bar of positive pressure.
- Rapid completion of work as the waterproofing membrane could be sprayed on in a single layer.
- MasterSeal 6100 FX is odourless and can be applied in enclosed environments.
- Low consumption of MasterSeal 6100 FX, reducing the volume of packaging waste as well as application costs
- Approved for potable water contact in accordance with the Drinking Water Directive (Directive 98/83/EC).

### Project facts at a glance

- Total area waterproofed: approx. 12.500 m<sup>2</sup>
- MasterSeal 6100 FX applied with a thickness of 2 mm thickness and 1.9 kg of product per square metre
- 1.5 km of joints treated with MasterSeal 930/933 system.
- The use of MasterSeal 6100 FX instead of other traditional cementitious two-component waterproofing membranes saved in this job approx. 18 tons of waterproofing material.

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