



SIKA AT WORK

WATERPROOFING OF LOAYSA WATER TANK, SPAIN

CONCRETE PROTECTION: Sikalastic®-6100 FX

BUILDING TRUST



LOAYSA WATER TANK, SPAIN



PROJECT DESCRIPTION

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 m³. 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.

Project name: Loaysa water tank
Location: Grenada, Spain
Year: 2015
Market sector: Drinking Water Industry

PROJECT REQUIREMENTS

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.

SIKA SOLUTIONS

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

- Surface preparation and smoothing with SikaTop®-531 Seal rigid waterproofing slurry.
- Structural repair, where needed, using SikaEmaco® S 5400 thixotropic structural repair mortar.
- Waterproofing and protection of soffit with SikaTop®-531 Seal.
- Sealing of movement joints exposed to water pressure with Sikadur-Combiflex®-930 elastic tape, fixed with Sikadur-Combiflex®-933 epoxy adhesive.
- Complete waterproofing of slab and walls with Sikalastic®-6100 FX single-component elastic membrane.

Any product name or reference reflects the Sika product name at the time of creation of this document and may differ from the product name or reference during past events.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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CUSTOMERS BENEFIT

- Complete solution including concrete repair, surface waterproofing and joint treatment with compatible products offered by one single supplier.
- Sikalastic®-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.
- Sikalastic®-6100 FX is odorless and can be applied in enclosed environments.
- Low consumption of Sikalastic®-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 m². Sikalastic®-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 Sikadur-Combiflex®-930/933 system. The use of Sikalastic®-6100 FX instead of other traditional cementitious two-component waterproofing membranes saved in this job approx. 18 tons of waterproofing material.

PROJECT PARTICIPANTS

Project Owner: Confederación Hidrográfica del Guadalquivir - EMASAGRA
Applicator/Contractor: REEPOX