

Case Study



PROJECT INFORMATION

Project name: Al Kharj Sewage Treatment Plant Project

Client: National Water Company

Consultant: Abalkhail Consulting Engineers

Contractor: Thabat Contracting Company

Sub-contractor: Methaq Al Omran Est.

Location: Riyadh, Saudi Arabia

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expertise



quality



full range



PROJECT REQUIREMENT

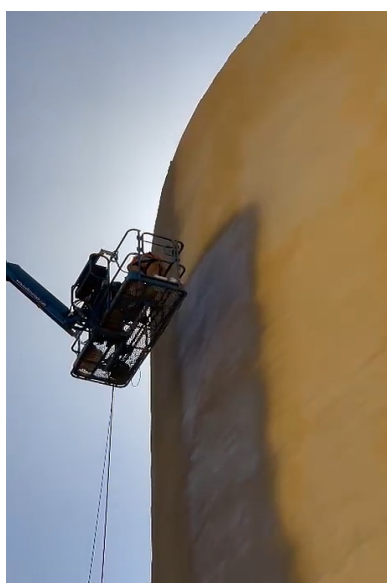
Task at Hand

The project involves the construction of sewage treatment plant facilities with the aim of increasing Riyadh's capacity for wastewater purification. It includes the construction of a waste treatment facility, storage tanks, waste sorting unit, waste collection unit, cooling unit, related infrastructure facilities, and the installation of sewer pipelines.

One of the project's main requirements were providing an economical waterproofing and protective coating for the wastewater tanks, which can be easily spray applied and has excellent adhesion to the existing PU Foam Thermal Insulation. The coating should also provide resistance to UV with excellent protection against carbon dioxide, chloride ions and water.

DCP SOLUTION

DCP products have played an important role in providing the desired protection and waterproofing of the wastewater tanks. **Setseal C**, a flexible acrylic cement modified waterproofing and protective coating, was approved by the consultant with long-term performance and reliability in mind. Due to the size of the project, the product was sprayed over the PU foam covering the wastewater tanks' external surface area. DCP therefore conducted tests at the R&D center to confirm the suitability for such application.



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DCP SOLUTION

Moreover, when the applied **Setseal C** had cured, an “on-site verification test” was conducted to confirm the product’s adhesion over the previously applied PU foam; the product has shown excellent adhesion on the foam, where a cohesive failure occurred within the foam itself when conducting the pull-off test.

The applied coating now protects the tanks that are expected to treat 200,000 cubic meters of wastewater per day, increasing Riyadh’s wastewater purification capacity.



Products and Quantities Supplied

Setseal C	1500 sets covering around 10,000 m ²
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