



SIKA AT WORK

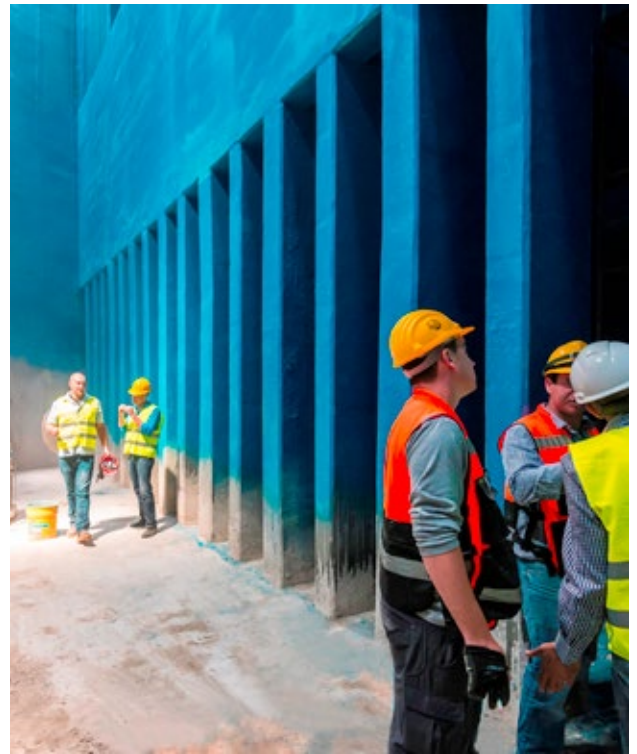
ASHDOD DESALINATION PLANT, ISRAEL

CONCRETE PROTECTION: Sikalastic®, SikaCor®

BUILDING TRUST



REVERSE OSMOSIS DESALINATION



PROJECT DESCRIPTION

Ashdod Seawater Desalination Plant is located in Ashdod, Israel. The construction is between 2012 – 2015. The total project size is 20,000m².

The various areas of the seawater reverse osmosis desalination plant such as intake chambers of the seawater, preparation basins, disinfection area to the purification section and the outlet section have to be protected with a reliable, robust chemical and abrasion resistant lining. Reverse osmosis is a water purification technology that uses a semipermeable membrane.

The Ashdod Seawater Reverse Osmosis Desalination Plant has a production capacity of 100 million cubic meter per year.

PROJECT REQUIREMENTS

The waterproofing material should be able to withstand abrasion caused by sand from the sea water, should be chemical resistant against salt-water and every chemicals used in the de-mineralization and re-mineralization process. To ensure the water tightness of the structure crack bridging properties are also mandatory.

SIKA SOLUTIONS

After the appropriate professional surface preparation by high pressure water jetting, all surfaces were levelled with Sikagard® -720 EpoCem, followed by an epoxy primer, Sikafloor® -156. The so prepared approximately 20.000m² surfaces were then completely covered with our spray applied Polyurea, Sikalastic® -841 ST.

SIKA PRODUCTS

Levelling Coat: Sikagard® -720 EpoCem
Primer Coat: Sikafloor® -156
Waterproofing Material: Sikalastic® -841 ST
Secondary Containment in chemical storage: SikaCor® VEL
Injection resin: Sika® Injection 101 RC

PROJECT PARTICIPANTS

Project owner: Mekorot Israel National Water Co.
Engineer: IVM Joint Venture
Main Contractor: Minrav and Merter
Applicator: Eco & Logi
Sika organization: Gilar Ltd, Qadima, Israel

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