

Case Study: Polyurea / Israel Water Desalinization Plant



Project Details

Equipment: GlasCraft MH-III and Probler P2 gun
Contractor: Polyurea Ltd.
Location: Haifa, Israel

Size: 500,000 Square Feet
Exposure: Salt and Drinking Water
Installation: 6 months
Substrate: Concrete and Steel
Thickness: 40-60 mils
Surface Prep: Sand Blast

Primer: PV-1 and PV-30
Material: Versaflex Aromatic Polyurea
(Aquaverse 405 Potable Water Sys.)

Polyurea Applications – A Growing Market

Polyurea applications for a variety of requirements are growing each day. One of the key markets for Polyurea is the Potable water industry. Recent figures quoted on National Public Radio state there are close to 1 billion people worldwide without access to clean drinking water. Much of the existing infrastructure for potable water is also in need of repair or replacement. These facts combine to provide a major problem that can use Polyurea as part of the solution.

Water Desalinization Plant, Israel

The Desalinization Plant in Israel is one of the first to use the newest designs for conversion of large quantities of seawater. The complex geometry of the structures required a system that could be applied in a uniform thickness. Fast curing Polyurea applied with high-performance GlasCraft Inc. plural-component application equipment provided the answer and allowed

the thickness to be controlled within specifications. Depending on the substrate and exposure anticipated, the material thickness was 40-60 mils. The variety of substrates and shapes provided no difficulties for uniform product application using the GlasCraft MH Hydraulic Proportioner system.

The coating system also needed the elastomeric properties of Polyurea to address any movement or cracking of the substrates. Unlike other coating choices, polyurea can be formulated to meet these needs. At 40-60 mil thickness, the system has been designed for a 25 year service life and is expected to out perform other portions of the project that utilize other coatings.



Water transfer conduits

Contact GlasCraft Inc. or one of our factory authorized distributors for more information on how GlasCraft's high-performance application equipment and the use of specialized Polyurea coatings can help you drive your business to new heights!