

## Ras Laffan, Water & Power Project, Qatar

POLYUREA

<b>Client</b>	RasGas
<b>Construction Contractor</b>	Hyundai Engineering & Construction Co
<b>Consultant</b>	Parsons Brinckerhoff Int'l Inc
<b>Coating Contractor</b>	Hitech Projects, Doha
<b>Project</b>	Ras Laffan, Water & Power Project, Doha
<b>Area</b>	Digesters in STP, 18.000m <sup>2</sup>
<b>Construction</b>	April 2010
<b>VIP System</b>	QuickSpray Industrial



### Project Description

Ras Girtas, Water & Power Projects, required a fast curing surface coating system with high mechanical abrasion resistance, no VOC contents, no cracking and stable features for their newly constructed digesters at the Ras Laffan STP.

To reduce surface preparation and application time to a minimum, a Geotextile was fixed directly to the concrete as a base, and the Polyurea sprayed onto it to form a lining.

Application done using a 1:1 heated, high-pressure, plural component equipment (Graco XP-2). Pressure of time for fast completion and cost advantages favoured QuickSpray Industrial (aromatic), a 100% Polyurea 2-part Coating - System derived from a reaction of Isocyanate and Amine terminated resin.

The application took place in 2 steps:

1. Geotextile was layed out and mechanically anchored.
2. The aromatic Polyurea QuickSpray applied @ 3mm with heated mixing equipment.

The complete process of surface-preparation and application of base coat was successfully completed within 2 months. After curing time of 7 days the tank was activated.

