

Waste Water Tunnel, Iran

POLYUREA

Client	Water Authority
Construction Contractor	Zharf Kar
Consultant	Mahab Ghodss
Coating Contractor	Anticor Limited, Dubai
Project	Waste Water Tunnel, Teheran
Area	approx. 90.000 m ²
Construction	September 2010
VIP System	QuickFill QuickPrime 2K Epoxy QuickSpray Industrial



Project Description

The Water Authorities required a fast curing surface coating system with high chemical resistance, fast working times, superior tensile strength, no cracking and stable features for the refurbishment of a 7 year old sewage tunnel. Lack of time and extreme durability favoured QuickSpray Industrial (aromatic), a 100% Polyurea 2-part Coating-System derived from a reaction of Isocyanate and Amine terminated resin.

Processing took place in 4 steps:

1. Concrete was pressure washed and cleaned of any residues that may have an affect to bonding.
2. Quick Block Vapour barrier was applied to reduce extremely high concrete substrate moisture.
3. QuickFill and QuickPrime Epoxy applied.
4. The aromatic Polyurea QuickSpray @ 1.5mm applied with 4 Graco XP-2 high pressure spray units.

The complete process of surface-preparation and application of base coat was successfully completed 4 months despite extreme conditions in below ground tunnel infrastructure. Material supply thru Shimiya Beton Co., the exclusive distributor for the VIP range of products in Iran.

