

Job profile

- Project: rehabilitation of a desalination facility.
- Total area 12,000 sqm of pools and channels (in two parts)
- Location: Ashkelon- south of Israel (5 km from Gaza)
- Completed: April 2009
- Contractor: Sya-Group

Desanilation



- Applicator: Sya Group LTD
- Contact: Nisensvieg Eli 972-54 2600609

system



- Sika top 110 (for the rebars)
- Sika 122 (used as a filler)
- Sika guard 720 (as a barrier and to smooth the surface)
- Epoxy primer Epicatalack SL 100% solids (Tambour)
- Polyurea pw approved NSF 61

Challenges

- Tight schedule – down time is critical – 1 day = 5,000,000\$
- High humidity and moisture – using humidifiers
- Flowing water
- Safety aspects of underground work – air supply



Quality control



- Spark test-holiday detector
- Pull-off tests
- Thickness measurements
- Dew-point and surface temperature control
 - Crucial!!!

Water blasting





Exposed rebar



Rebars condition



After using sika guard 720



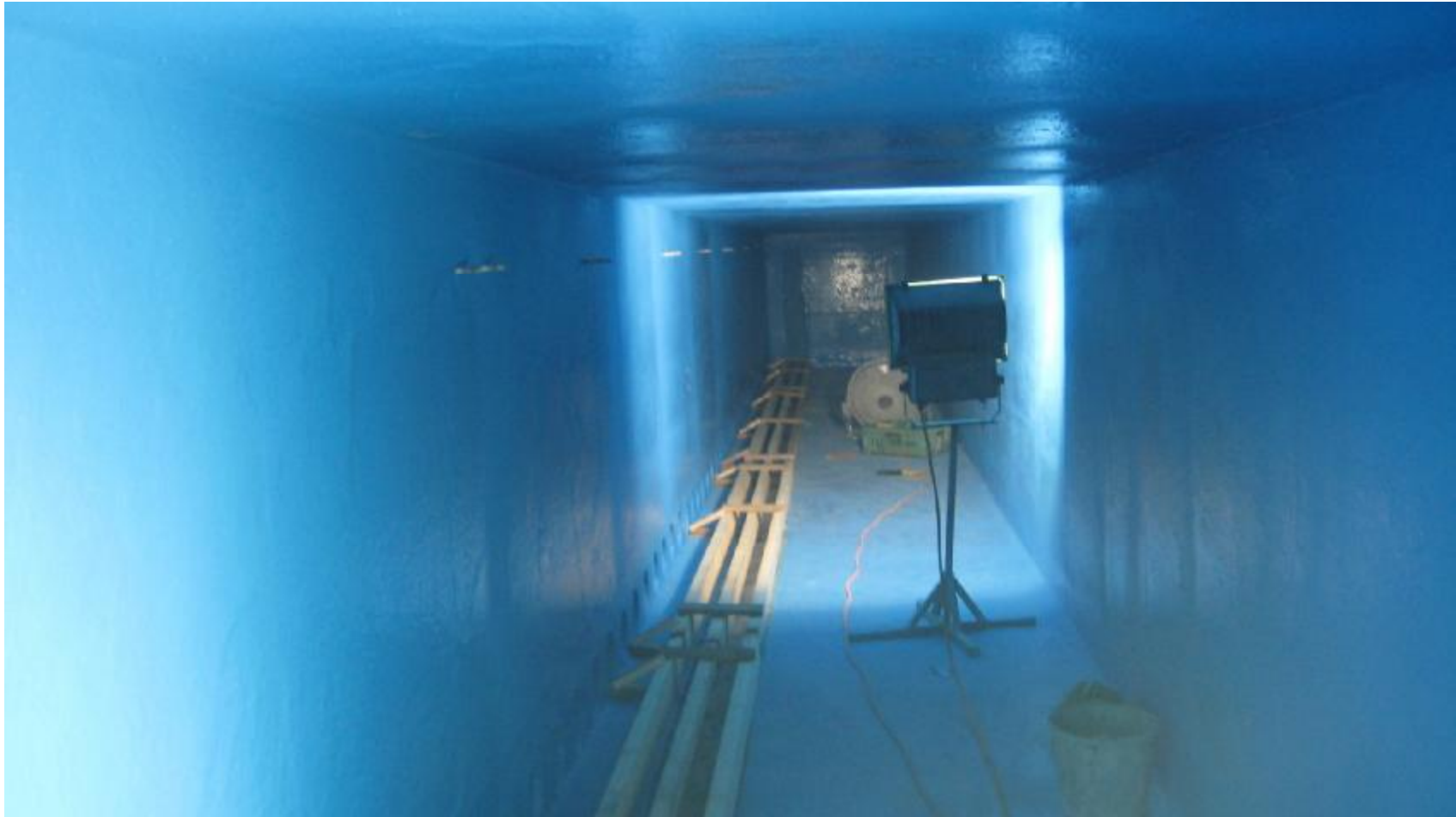
Using sika top 110\122



Spraying polyurea



Polyurea 1500-2000 micron



The tanks





Remove sika guard 107



Using high pressure water



Looking for corrosion



Marking





Getting to the rebars



Expose the rebar



Using sika top 110



ceiling and beams treatment



Spraying polyurea



1500-2000 micron









Conclusions



- 6,000 sqm were completed successfully in 7 days, including surface preparation, concrete rehabilitation, surfacing and spraying.
- 6,000 sqm will be sprayed on next March
- Quality assurance and on-site inspection save time and money