

## PROJECT:

# Underpass roof slab waterproofing at the Mohammed Bin Rashid City - District One, Dubai, UAE

Project Information	
<b>Client</b>	: Meydan Sobha LLC FZ
<b>Location</b>	: Mohammed Bin Rashid City, Dubai, U.A.E.
<b>Contractor</b>	: Wade Adams
<b>Consultant</b>	: AE7
<b>Products</b>	: Corroprime EP SF Corroprufe 65 Corromortar FC Corrocoat PUA HF Corroseal PS 749
<b>Area</b>	: 1500 m <sup>2</sup>
<b>Area of application</b>	: Underpass roof slab waterproofing
<b>Year of application</b>	: 2017



Roundabout on the top of the underpass

### Project Description:

Mohammad Bin Rashid City is a new mix-use prime development in the vicinity of the Business Bay, Burj Khalifa and Downtown Dubai planned to be finished by 2020. Within the Mohammad Bin Rashid City, the developer Meydan Sobha LLC FZ is developing 40 million square feet of freehold land into an exclusive destination of luxury villas, together with the needed infrastructure.

For waterproofing of 1500 m<sup>2</sup> slab (750 m<sup>2</sup> each slab in two locations) Corrotech Construction Chemicals offered the consultant its polyurea waterproofing solution **Corrocoat PUA HF**. Polyurea waterproofing provides seamless waterproofing protection which is a significant advantage over traditional waterproofing systems, in addition to protecting the entire structure.

The system offered was applied as follows:

- 1) The entire area of the original concrete structure was grinded and vacuumed as a part of the surface preparation. All irregularities in the substrate were repaired by using **Corromortar FC** repair mortar.
- 2) Repaired and prepared surface of the bridge was primed with **Corroprime EP SF**.
- 3) Joints between the areas were sealed with **Corroseal PS 749** and bonded with suitable bond breaker system before spraying the polyurea system.
- 4) **Corrocoat PUA HF** was sprayed up to a thickness of 3 mm. The final layer of polyurea was broadcasted with anti-slip aggregate to create mechanical key.
- 5) **Corroprufe 65** tack coat was applied as a final layer of the system to a thickness of 1 mm, over which 150°C hot asphalt was poured.



Underpass with the slab area



Polyurea spraying