

Case Study



- » Project name **King Abdullah Financial District**
- » Client **KAFD DMC**
- » Consultant **SaudConsult**
- » Contractor **Taj Dhabi**
- » Location **Riyadh, Saudi Arabia**



Task at Hand

The King Abdullah Financial District (KAFD) project in Riyadh involved the construction of a multi-storey car parking facility covering approximately 200,000 m². The project required a durable flooring system capable of withstanding continuous vehicular traffic while maintaining safety, durability, and aesthetic consistency.

Due to the scale of the project and the operational demands of parking structures, the flooring system needed to provide high abrasion resistance, slip resistance, and long-term protection of the concrete substrate. Additionally, the project required reliable material supply within strict delivery timelines to ensure uninterrupted construction progress.

DCP was engaged to supply a high-performance epoxy flooring system designed specifically for heavy-duty car park environments.

Project Requirement

The project required a flooring system capable of delivering long-term durability under heavy vehicular traffic while maintaining safe operating conditions for users. One of the key technical requirements was achieving effective slip resistance, which is critical in parking facilities where surfaces may be exposed to dust, water, or vehicle fluids.

In addition to performance, the project also required a solution that could achieve colour consistency across a large application area while also accommodating a variety of colours for different parking zones, traffic markings, and visual demarcation requirements. This made colour control and finish quality an important part of the specification, particularly across the project's 200,000 m² area.

The system also had to comply with LEED environmental requirements, meaning materials needed to meet low VOC criteria and support sustainable construction standards. Strict project delivery deadlines also meant that materials had to be supplied efficiently and applied within the construction schedule without delays.

Overall, the project demanded a flooring solution that combined safety, durability, aesthetic flexibility, and logistical reliability in a system suitable for a major car park development.

DCP Solution

DCP supplied a multi-layer epoxy flooring system designed for high-traffic car park environments, providing durability, safety, and long-term protection of the concrete structure.

Concrete Repair - Quickmast 341

Surface preparation and repair works were carried out using **Quickmast 341**, a solvent-free epoxy patching compound used to fill pinholes, repair minor defects, and treat irregularities in the concrete substrate prior to coating application. Its use helped create a sound, even surface, which was essential for the successful installation of the flooring system.

Flooring Systems – Strongcoat HB400 (Anti-slip Finish)

Following surface preparation, **Strongcoat Primer+** was applied to enhance adhesion between the concrete substrate and the coating system.

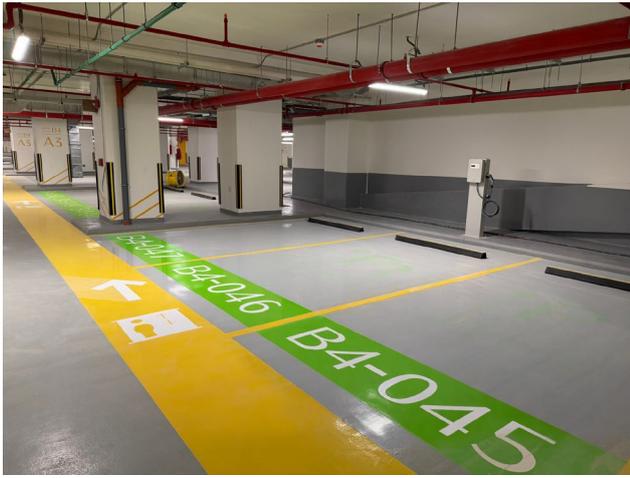
The main wearing layer consisted of **Strongcoat HB400**, a solvent-free high-build epoxy floor coating designed to provide a hard-wearing, chemically resistant surface. When broadcasted with anti-slip aggregates, the system produces a textured surface that improves safety while maintaining excellent mechanical performance and abrasion resistance.

DCP Solution

Protective Coatings – Strongcoat EPU100

To complete the system, **Strongcoat EPU100** was applied as a protective finishing layer. This high-performance epoxy polyurethane coating provides additional abrasion resistance, flexibility, and protection against environmental exposure, while also resisting oils, fuels, and chemicals commonly present in parking environments.

DCP ensured that all materials were delivered directly to the site on schedule, allowing the contractor to maintain construction progress without interruption. The completed flooring system delivered a durable, slip-resistant, and chemically resistant surface, meeting both the operational demands and sustainability requirements of the project.



» Quantities Supplied	Quickmast 341	6,500 sets (5 kg)
	Strongcoat Primer+	1,500 sets (30 kg)
	Strongcoat HB400	5,870 sets (18 kg)
	Antislip Aggregate #3	250 tons
	Strongcoat EPU100	1,500 sets (14 kg)