Project Report/October 2025

StoCretec car park systems protect car park of Faculty of Medicine, University of Saint Joseph

St. Joseph University of Beirut (USJ) in the Republic of Lebanon opened the new "Raymond and Aïda Najjar" building of its Faculty of Medicine in February 2025. Rooted in Jesuit heritage, the university focuses on education, healing, and service. The name of the new faculty building honours Raymond Najjar for his exceptional commitment to education and medicine.

The new building for the USJ Medical School offers an underground car park for students and university staff. Approximately 130 parking spaces are available on four levels, covering a total area of 4,000 square metres. The levels are accessible via four ramps.

The construction project team opted for StoCretec coating systems for the surface protection of the traffic areas as well as the walls of the underground car park. Technoproof, already experienced in the field of floor coatings, received intensive user training on the perfect use of the selected StoCretec systems at our training centre in Waldshut-Tiengen in the German Black Forest prior to the start of the project.

The tested **StoFloor Traffic Elastic 590 EP** multi-storey car park system was used on the ramps exposed to the elements. It offers excellent wear resistance while also being permeable to water vapour. The epoxy floor coating system is dynamically and statically crack-bridging and offers good bond performance to concrete substrates.

The applicators applied **StoFloor Traffic DV 100** to the interior ramps. This system is slip-resistant and also features excellent wear resistance. It is suitable for use on substrates with rising damp and is limited combustibility.

For the traffic areas, parking carpets, and wall surfaces, the construction project team selected **StoFloor Traffic WL 100**. This water-based car park system, which also has excellent water vapour permeability, is suitable for rising damp. It is low-emission* and benzyl alcohol-free.

The applicators used two coats of **StoPox WL 100** EP sealing coat to the approximately 900 square metres of wall surface. It offers a wide range of colours, which was cleverly utilized in the Medical Faculty's underground parking garage to provide orientation through colour accents on the four parking levels. **StoPox WL 100** was also used for the traffic markings.

Properties of **StoFloor Traffic Elastic 590 EP**

- StoCretec EP multi-storey car park system
- For ramps and impermeable concrete floor slabs in car parks
- For floors with rising damp
- Very good wear resistance
- Water vapour permeable
- Crack-bridging
- Limited combustibility system build-up (EN 13501-1)
- Radon-tight in accordance with IAF measurement (Radeberg, DE)
- Tested system build-up with voluntary external monitoring
- In accordance with EN 1504-2 and EN 13813

Properties of **StoFloor Traffic DV 100**

- StoCretec EP multi-storey car park system
- For floor slabs and ramps in car parks
- Slip-resistant
- Very good wear resistance
- Limited combustibility system build-up (EN 13501-1)
- Low-emission*
- Free from benzyl alcohol
- In accordance with EN 1504-2 and EN 13813
- Tested system build-up with voluntary external monitoring
- Large number of long-term references

Properties of **StoFloor Traffic WL 100**

- StoCretec EP multi-storey car park system
- For floor slabs in contact with the ground in multi-storey car parks
- Very good water-vapour transmission rate
- Limited combustibility
- In accordance with EN 1504-2 and EN 13813
- Tested for rising damp (German RILI-SIB/DAfStb)
- Large number of long-term references

*according to the criteria of the German Committee for the Health Assessment of Building Products (AgBB)

Who & What

Project:	Floor and wall coating underground car park, Beirut, LB
Investor:	Saint Joseph University of Beirut, LB
Architect:	Atelier of Art & Architecture, Zahle, LB
Projekt Management:	Karim und Nabil Najjar, Beirut, LB
Applicator:	Technoproof, Beirut, LB
Realisation:	5/2025

StoCretec Competence:

StoFloor Traffic Elastic 590 EP - Ramps 1+2

Primer	StoPox 452 EP
Coating	StoPox 590 EP
Broadcasting	StoQuarz 0,3 - 0,8 mm
Sealing coat	StoPox DV 100

StoFloor Traffic DV 100 - Ramps 3+4

Primer	StoPox GH 530
Coating	StoPox GH 530
Broadcasting	StoQuarz 0,3 - 0,8 mm
Sealing coat	StoPox DV 100

StoFloor Traffic WL 100 - Traffic and parking area

Primer	StoPox WG 100
Coating	StoPox WL 100

Sealing coat	StoPox WL 100

StoFloor Traffic WL 100 - Walls, markings

Primer	StoPox WL 100
Sealing coat	StoPox WL 100

Photos: Courtesy of Karim Najjar


B1


B1 SS1


Dir. FMS
HE
B1 SS1


HE
B2 SS2


HO
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B3SS3


B3SS3


B4SS4


B4 S54