

Project Report/June 2022

## Extravagant Look for Underground Car Park in Montabaur with StoDesign Colour Concept

The comprehensive repair of the northern underground car park in Montabaur in the German Westerwald district, Rhineland-Palatinate, was successfully completed in May 2022. The two-storey underground car park offers 135 parking spaces, divided between long-term parking and guests. Over the years, ingress of moisture had affected the concrete floor in particular, so that a large-scale renovation had become necessary.

StoDesign Interior created a selected colour concept for the planner. The interior designer based the colour scheme on an integrated approach to the Montabaur municipal building, which is located in the immediate vicinity. For this reason, colours such as "palace yellow" and "rusty red" dominate in the underground car park," enthused the mayor Gabi Wieland. The light grey floors received clearly recognizable floor markings for pedestrians or separate parking spaces.

The underground car park was coated with the crack-bridging OS 8 floor coating system StoFloor Traffic Elastic 590 EP. The water vapour permeable system is particularly suitable for use on floor slabs made of watertight concrete with rising damp. The system is structurally crack-bridging (class A3 according to DIN EN 1062-7) and dynamically crack-bridging (class B 3.1 based on DIN EN 1062-7:2004-08).

In this way, the system protects the concrete floor from the entry of water and pollutants dissolved in water - especially from chlorides. This significantly increases the longevity and cost-effectiveness of the multi-storey car park. For example, it prevents possible follow-up costs that can arise from subsequent repairs applying crack bandages. Such later repairs would then also significantly impair the visual appearance of the underground car park.

The high level of crack-bridging of StoFloor Traffic Elastic 590 EP, together with its mechanical and chemical resistance, high alkali stability and good bonding behaviour, ensures lasting protection for the floor of the multi-storey car park.

### Properties of **StoFloor Traffic Elastic 590 EP**

- StoCretec EP multi-storey car park system
- Water vapor permeable
- Crack-bridging

- Very good wear resistance
- Suitable in the case of raising damp
- Limited combustibility system build-up, reaction to fire Bfl-s1
- Radon-tight in accordance with IAF measurement (Radeberg, DE)

## Who & What

Project:	Multi-storey parking, Montabaur, DE
Investor:	District administration Montabaur, DE
Planner:	Zimbelmann & Renoplan GmbH, Netzbach, DE
Colour Concept:	StoDesign Interior Stühlingen, DE
Applicator:	Massenberg GmbH, Bürstadt, DE
Realisation:	5/2022
StoCretec Competence:	StoFloor Traffic Elastic 590 EP Prime coating & Levelling coat      StoPox GH 502 Scattering            StoQuarz 0,3 - 0,8 mm Coating                StoPox 590 EP Scattering            StoQuarz 0,3 - 0,8 mm Sealing coat         StoPox DV 100

(Photos: Axel Stephan für StoCretec)















