Project Report/June 2024

StoFloor Traffic Elastic 590 EP in Corporate Design of KKH Hanover

Problems with moisture were the reason for serious damage in the ground floor of the underground car park of the “Kaufmännische Krankenkasse” (German health insurance) in Hanover. In addition, the assigned planner identified numerous cracks in the substrate as well as corrosion damage, particularly in the spray and splash water area.

The underground car park was to be refurbished and provided with a surface protection system in the corporate colours of the Kaufmännische Krankenkasse (KKH). The system serves to permanently protect the building structure from ingress of water and harmful substances dissolved in water. The project required a system that is crack-bridging as well as suitable for rising damp of the waterproof concrete floor slab. A normal rigid OS 8 surface protection system was out of the question due to its lack of crack-bridging. The team of project experts, including the investor, planner and specialist applicator, opted for a durable and reliable solution from StoCretec: **StoFloor Traffic Elastic 590 EP**. The desired colours shades of the traffic coating were a challenge and had to be requested to production in advance, but this was no problem for StoCretec: a customer's wish is a customer's wish!

Long-standing references confirm durability

The surface protection system **StoFloor Traffic Elastic 590 EP** with its epoxy resin coating StoPox 590 EP is both statically (class A3: 0.51 mm at -10 °C) and dynamically crack-bridging (0.1 - 0.3 mm, based on class B 3.1) as well as water vapour permeable (class II: Sd value ≤ 50 m). This combination of properties make it unique. It is highly wear-resistant and has a very good bond to the substrate.

With the slip resistance class R 11 V4 or higher, it achieves a high level of slip resistance even in wet conditions. The reaction to fire is classified as limited combustibility. Numerous long-term references demonstrate the excellent functionality and durability of the EP parking garage system.

The wall surfaces and columns were given a matt coating with **StoCryl V 100**. This coating prevents the penetration of water and hazardous substances dissolved in water and it regulates the moisture balance of the concrete. Good penetration capacity into the subsurface, very good adhesion and good water vapour diffusion capacity are also among its properties.

After the extensive refurbishment, the underground car park is not only free of damage and optimally protected for the future, but it also welcomes customers and employees already in the car park in the unmistakable corporate colours of KKH.

Properties of **StoFloor Traffic Elastic 590 EP**

- StoCretec EP multi-storey car park system
- For water vapour permeable floor slaps and ramps of multi-storey car parks
- Water vapour permeable
- Statically and dynamically crack-bridging
- Tested suitable in case of rising damp
- Very good wear resistance
- Resistance to severe chemical attack
- High mechanical resistance
- Limited combustibility system build-up
- 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
- Colour spectrum: RAL colour fan K 5, StoColor System, NCS and others

Who & What

Project:	Underground car park refurbishing, Hanover, DE
Investor:	Kaufmännische Krankenkasse, Hanover, DE
Planner:	LPI Ingenieurgesellschaft mbH, Hanover, DE
Applicator:	Peter Presch GmbH, Hamm, DE

StoCretec [Project]

Realisation: 4/2024

StoCretec Competence:

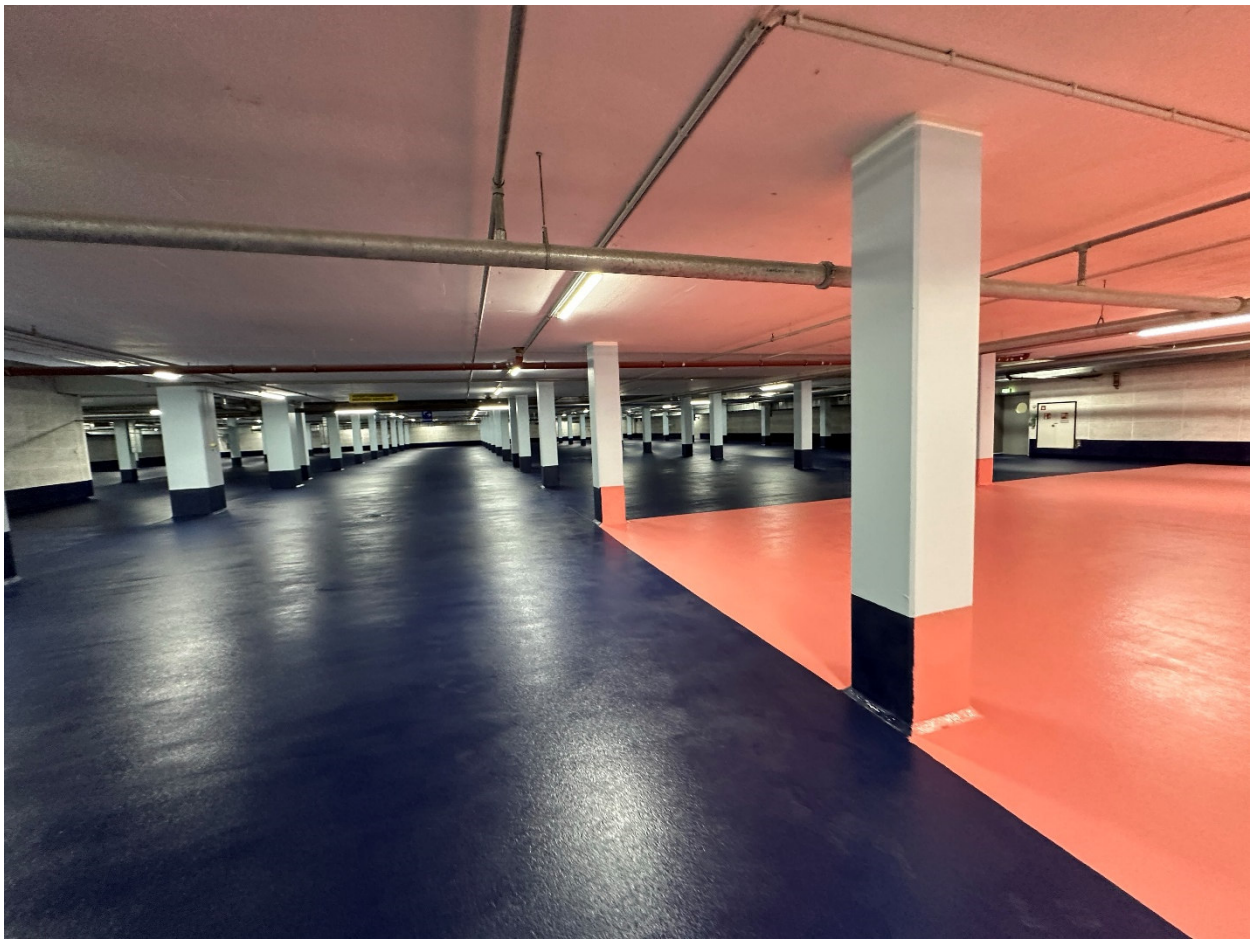
Flooring area
StoFloor Traffic Elastic 590 EP

Primer	StoPox GH 502
Coating	StoPox 590 EP with StoQuarz
Sealing coat	StoPox DV 100

Walls and columns:

Coating	StoCryl V 100

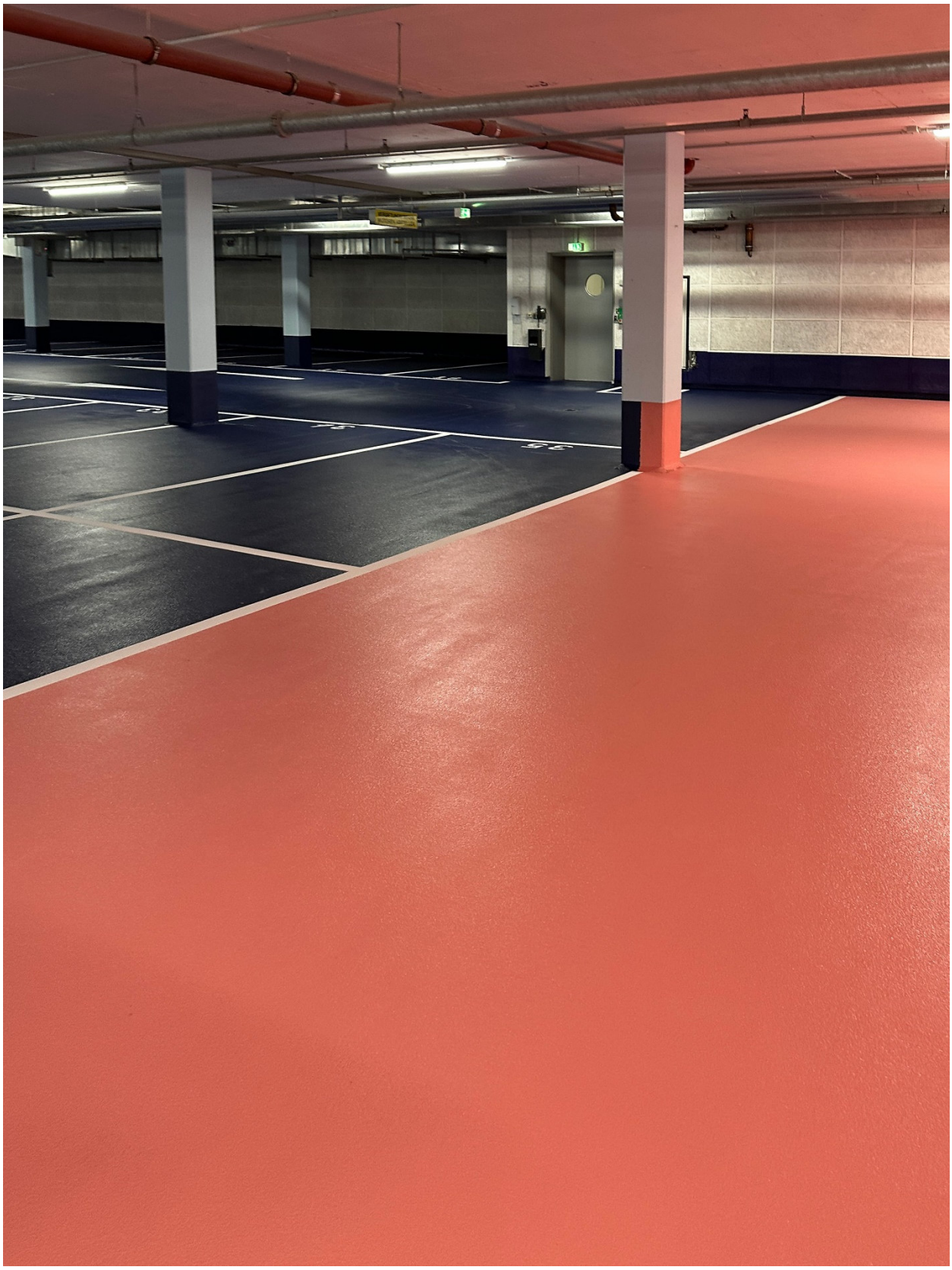
Photos: Peter Presch GmbH



StoCretec GmbH
Gutenbergstraße 6
DE-65830 Kriftel

Technisches InfoCentre:
Tel. +49 6192 401-104
Fax +49 6192 401-105

Internet: www.stocretec.de
E-Mail: stocretec@sto.com

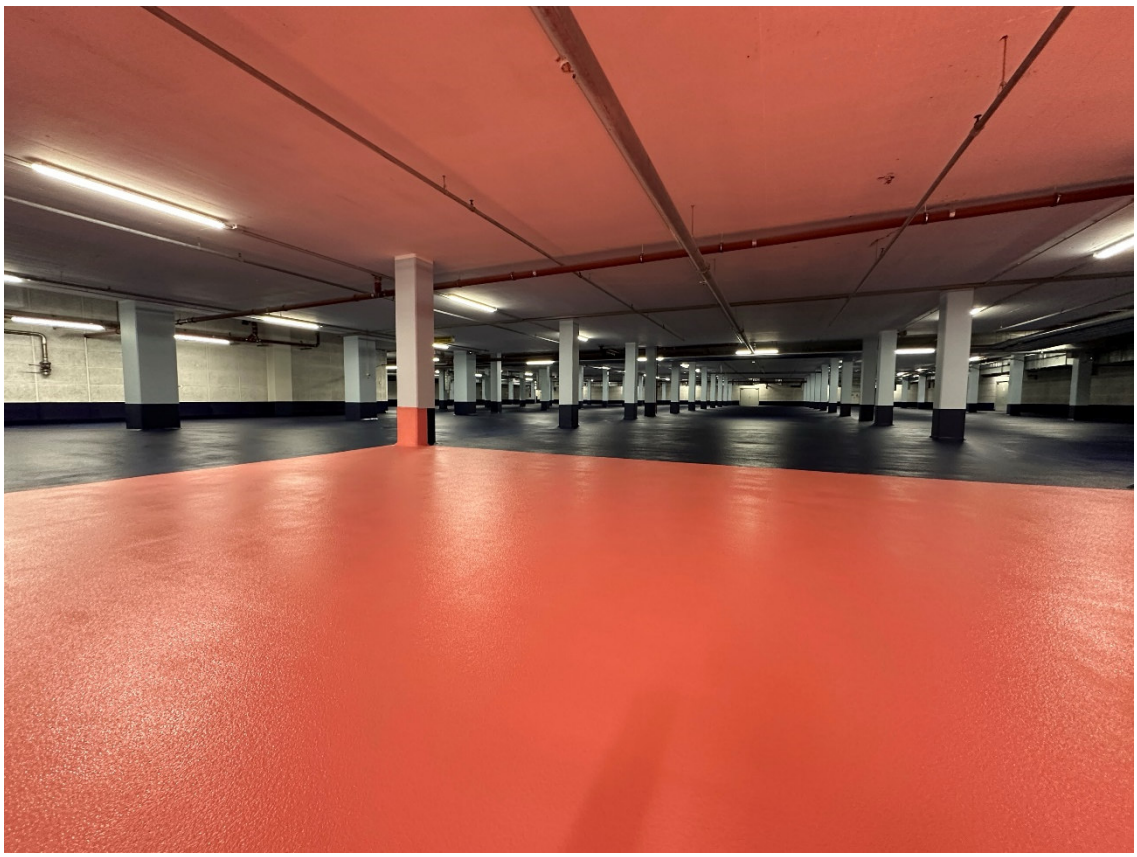


StoCretec GmbH
Gutenbergstraße 6
DE-65830 Kriftel

Technisches InfoCentre:
Tel. +49 6192 401-104
Fax +49 6192 401-105

Internet: www.stocretec.de
E-Mail: stocretec@sto.com



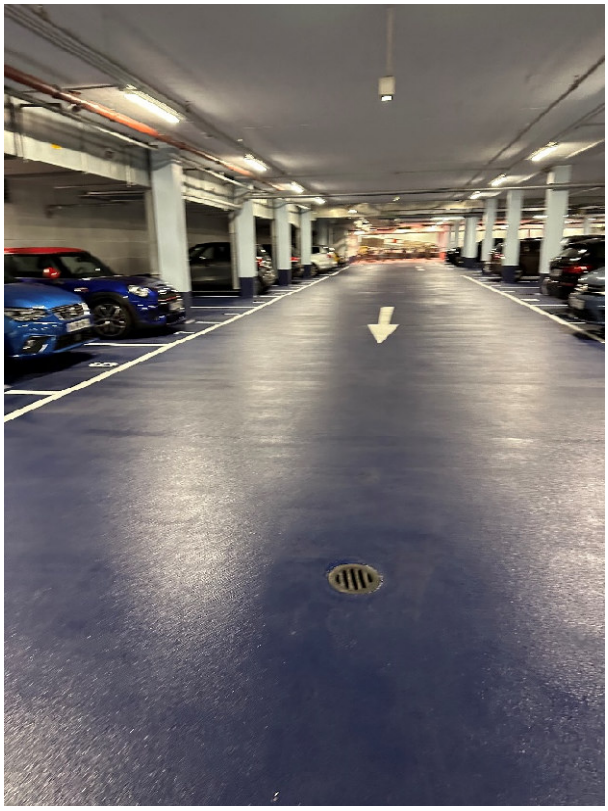


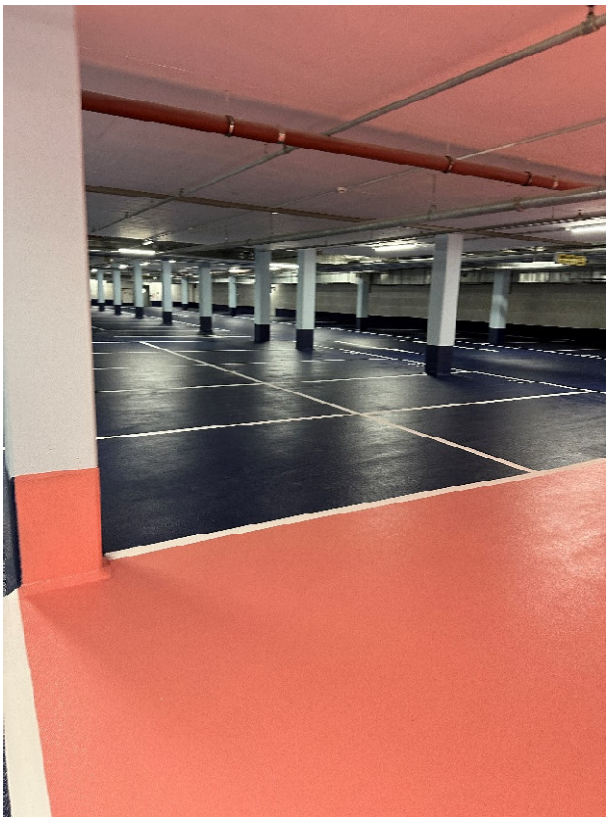
StoCretec GmbH
Gutenbergstraße 6
DE-65830 Kriftel

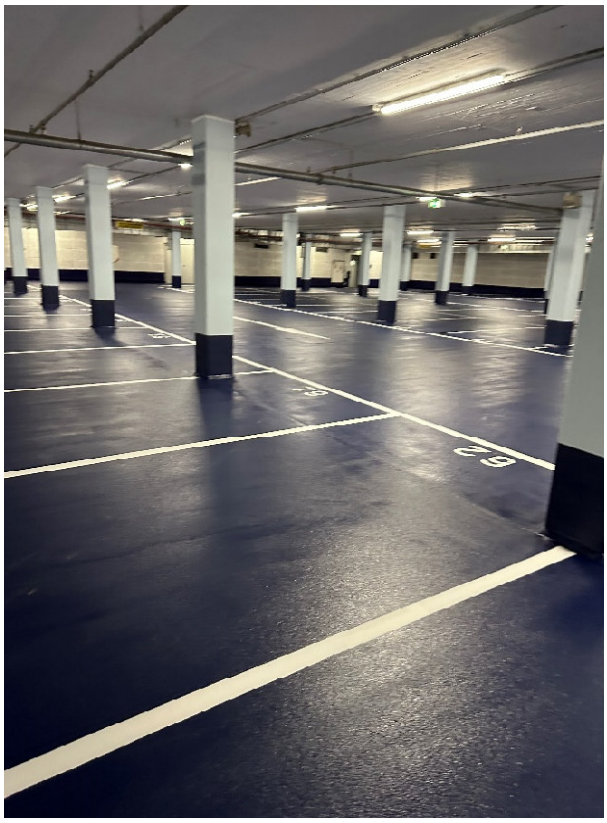
Technisches InfoCentre:
Tel. +49 6192 401-104
Fax +49 6192 401-105

Internet: www.stocretec.de
E-Mail: stocretec@sto.com









StoCretec GmbH
Gutenbergstraße 6
DE-65830 Kriftel

Technisches InfoCentre:
Tel. +49 6192 401-104
Fax +49 6192 401-105

Internet: www.stocretec.de
E-Mail: stocretec@sto.com