

Project Report/June 2020

StoFloor Traffic Elastic 590 EP for the underground car parking in Elztalhotel wellness resort in Winden/Blackforest, Germany

StoDesign brings colour and nature to the car park

The wellness resort Elztalhotel is picturesquely situated on the Ruettelsberg hill in the southern German Black Forest, near Freiburg/Breisgau. For extensive refurbishment work, the family-run hotel has set itself the goal of creating more space for guests and employees with a panoramic view and new "feel good rooms". This concept was continued successfully and impressively right through to the renovation of the underground car park for employees.

StoCretec 8.15 surface protection system allows nature to emerge in the car park

The tested StoCretec OS 8.15 StoFloor Traffic Elastic 590 EP is a high-performance floor coating system specially developed for WU concrete floor slabs, whose properties are designed in particular for protection against rising damp with simultaneous crack-bridging ability and very good wear resistance:

The EP primer StoPox GH 502 is part of the tested StoCretec car park systems. It offers a very good adhesive bond between the coating and concrete substrates and has been tested for its resistance to rising damp (Class II: Sd value ≤ 50 m). Scattered with StoQuarz 0.3 - 0.8 mm creates a good bond for the subsequent coating of StoPox 590 EP.

StoPox 590 EP is the innovative EP coating in the StoCretec OS 8.15 system made from a special epoxy resin with a cementitious filler. It is statically crack-bridging (class A3: 0.51 mm at -10 °C) and water vapour permeable at the same time, which makes it unique. Scattering with StoQuarz 0.3 - 0.8 mm grain gives the coating system an additional skid resistance.

The final EP sealing coat StoPox DV 100 for scattered synthetic resin coatings rounds off the surface protection system OS 8.15. The sealing coat is mechanically and chemically resistant, skid-resistant and has a high covering power. The glossy surface offers a large variety of colours and thus the design possibilities desired here.

StoCryl V 200 offered the perfect solution for the walls of the underground car park and also for the appealing artistic design. The coating prevents water and pollutants dissolved in water from penetrating the concrete, regulates the moisture balance and has good water vapour permeability. Also this product is in accordance with EN 1504-2. It can be processed very well by paint

brush, roller, and airless sprayer. In particular, the colourful interior design options for the underground car park using strong yet natural colours worked out precisely, both on large areas and in the considerable details.

StoDesign Feel-good Colour Concept Nature

At the client's ~~main~~ request, the employees' underground car park was to fit harmoniously into the overall concept of the hotel. For this reason, StoDesign, ~~department Interior~~, developed design proposals. After an on-site appointment, StoDesign created a colour concept with selected natural shades of green, beige and brown. The underground car park was to remain bright. Pleasant colour shades and gentle transitions were chosen on the floor and on the walls. The parking spaces are highlighted by park carpets, separate symbols mark the areas for bicycles and motorbikes and direct the user to the adjoining staff rooms. The walls were adorned with additional pictures and silhouettes, which took up the natural and harmonious overall concept of the wellness hotel and conjure up charming smiles on the faces of the employees, which they take with them into the day and pass on to the guests.

Who & What

Project:	Underground parking Elztalhotel, Winden, DE
Colour concept:	StoDesign Interior, Stühlingen, DE
Applicator:	Kaiserstühler Sanierungstechnik G. & M. Müller GbR, Wyhl, DE
Realisation:	2020
StoCretec Competences:	Surface protection systems
	Floor slab OS 8.15
	Priming coat: StoPox GH 502 scattered with StoQuarz 0,3 - 0,8 mm
	Levelling coat/crack-bridging: StoPox 590 EP with StoQuarz 0,3 - 0,8 mm
	Sealing coat: StoPox DV 100 in RAL 1015,1019
	Walls OS 2 (OS B)
	Coating: StoCryl V 200 in RAL 9010 and several colour shades



(Photos: Kaiserstühler Sanierungstechnik G. & M. Müller GbR)