

Project Report/June 2024

StoFloor Traffic Elastic PM MultiBase for b'mine Hotel CarLoft in Düsseldorf

The b'mine Hotel in Düsseldorf, Germany, offers exceptional overnight accommodation also for its guests' motor vehicles. Mobility has a new quality: "Thanks to the patented CarLift technology, you can park right in front of your room and charge your electric vehicle."* the hotel advertises its patented CarLofts. Guests can get directly to their rooms with their car or motorbike. Comfort, convenience and parking security are included.

(*Source: <https://www.bmine.de/de/hotel-duesseldorf/car-loft>)

For the floor coating of the CarLoft parking areas, the investor's team of experts decided to apply the **StoFloor Traffic Elastic PM MultiBase** multi-storey car park system. The surface protection of these balconies, called "CarLoggia", must be adapted to the requirements of a traffic system, not forgetting the high demands on slip resistance, especially when wet.

The high-quality PUR/UREA parking garage system is a full-featured, tested surface protection of class OS 10. It has a high level of wear resistance and increased crack-bridging with a slip resistance class R11 V10. The elastic surface protection system is three-layered with a fleece-free sealing coat. It is applied quickly and odourlessly in just three steps, without additional broadcasting with quartz sand and without a separate sealing coat, and the short construction time allows the operator to use the CarLofts quickly. **StoFloor Traffic Elastic PM MultiBase** cures quickly. The floor surface can be walked on just a few hours after application and driven on after 24 hours. A clear advantage for the hotelier.

The increased dynamic crack-bridging prevents cracks from forming and thus the penetration of water and harmful substances dissolved in it. The concrete and reinforcing steel of the balcony-like construction, which is comparable to an open parking deck, are permanently protected. The structural stability of the component is ensured in the long term, renovation costs and down-times are reduced. **StoFloor Traffic Elastic PM MultiBase** is suitable against rising damp. Its functionality is retained permanently.

The polyurea-based wearing coating is chemically resistant to oils, fuels and de-icing salt, as well as UV and colour-stable - the parking areas do not yellow or fade, and the concrete substrate is permanently protected from the influence of harmful substances. The low-odour and plasticizer-free system is easy to work with. The reduced use of quartz sand (minus 90 percent) and the omission of top sealing coat reduce material and transport costs and at the same time conserve resources. Renewable raw materials are also used to produce the polyurethane resins.

Properties of **StoFloor Traffic Elastic PM MultiBase**

- StoCretec PUR multi-storey car park system with increased crack bridging
- Surface protection system class OS 10
- For concrete and cementitious screed substrates
- For open decks, intermediate decks, ramps, and spindles of multi-storey car parks
- Suitable for rising damp
- Resistance to severe chemical attack
- Good wear resistance
- Quick curing, short application time
- No broadcasting and no separate sealing coat required
- Odour-free application
- Various test certificates regarding slip resistance are available
- Tested system build-up with voluntary external monitoring
- Limited combustibility system build-up
- In accordance with EN 1504-2 and EN 13813

Who & What

Project:	CarLoggia b'mine Düsseldorf, DE
Investor/operator:	b'mine hotels GmbH, Berlin, DE
Proprietor:	Erste Düsseldorf E-7 GmbH & Co. KG, Bietigheim-Bissingen, DE

Project developer:	CarLoft Development GmbH, Berlin, DE
Planner:	LINDEN Architekten, Ratingen, DE
Applicator:	B. Goldkuhle GmbH & Co. KG, Essen, DE
Realisation:	3/2024
StoCretec competence:	StoFloor Traffic Elastic PM MultiBase Primer StoPox GH 500 Broadcasting StoQuarz 0,3 - 0,8 mm Elastic float layer StoPur PM MultiBase Wearing coat StoPur AC MultiCoat Sealing coat StoPox DV 503

Photos: Karl Huber Fotodesign, Nagold, DE









