

Project:

Renovation of underground car park in Luisenstrasse, Wiesbaden

Location:

Wiesbaden (Germany)

Project completed:

2020

Owner/s:

Union Investment Institutional Property GmbH, Hamburg

Planner:

IDN Ingenieurbüro Domke Nachf. Partnerschaft Beratender Ingenieure mbB, Duisburg

Applicator/Contractor:

Bekor GmbH ZNL Rhein Neckar, Frankenthal

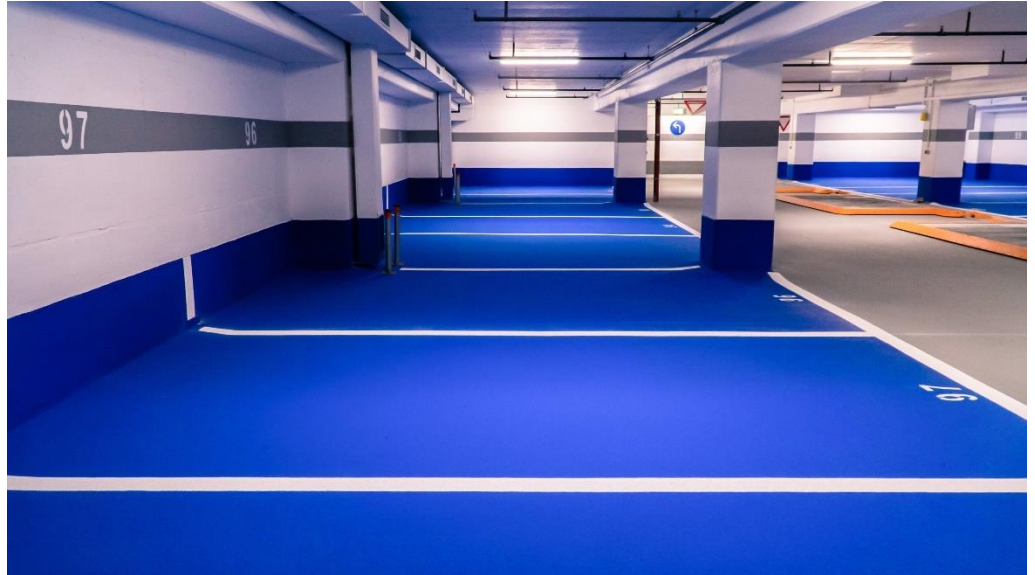
Products used & quantities:

MasterSeal Traffic 2219

MasterSeal Traffic 2239

RENOVATION OF UNDERGROUND CAR PARK

MasterSeal Traffic 2219 and 2239



An underground car park in Wiesbaden, Germany, has received a new lease of life.

The background

The parking areas, ramps, walls and ceilings of this underground car park and an associated inner courtyard required renovation.

After the necessary concrete repair work had taken place, a surface protection system was to be applied.

The challenge

The client was looking for an extremely resistant and durable surface protection coating, to be applied in two colors: grey and ultramarine blue.

The logistics and time pressure were particularly demanding for the installer and, on some occasions, up to 24 skilled workers were deployed on site.

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RENOVATION UNDERGROUND CAR PARK

MasterSeal Traffic 2219 and 2239



MasterSeal Traffic 2239 was used on the underground decks and MasterSeal Traffic 2219 on the ramps and the inner courtyard

Our solution

After removing defective bonded screed concrete, the surfaces were inspected to determine what repairs were needed. Once the screed surfaces had been renewed, surface protection systems were applied.

The floor and base surfaces in the underground car park were coated. MasterSeal Traffic 2239 was used on the underground decks and MasterSeal Traffic 2219 on the ramps and the inner courtyard.

Both MasterSeal Traffic 2239 and 2219 are classified as OS 10 according to Richtlinie für Schutz und Instandsetzung von Betonbauteilen -DAfStb- and CE marked according to EN 1504 part 2.

Additionally, MasterProtect 3003 (OS 2) and MasterProtect 3200 (OS 4) were used on the walls, columns and ceiling soffits.

Benefits to the customer

MasterSeal Traffic 2239 consists of MasterSeal M 689 spray-applied polyurea membrane, which is then immediately post-sprayed with a fine mist of the MasterSeal M 689. This provides an anti-slip surface, created by individual droplets post sprayed with same material.

MasterSeal Traffic 2219 also consists of a MasterSeal M 689 membrane but in this case, wear resistance is increased by adding a double layer of MasterSeal TC 681 topcoat with broadcasted sand over the surface.

Our polyurea hot spray membranes met all the requirements of the client and the applicator. Spray applying the membrane, the simplicity of the systems used, and fast curing meant the treated surfaces could be quickly returned to service.

The client and the planning office were satisfied with the technical aspects of the membranes, the timely execution and the appearance.

Project facts at a glance

- MasterSeal Traffic 2239: approx. 3,500 m² of treated surface in the underground parking area
- MasterSeal Traffic 2219: approx. 250 m² applied on ramps and approx. 440 m² in the inner courtyard.
- MasterProtect 3003 on vertical surfaces and ceilings
- MasterProtect 3200 on vertical surfaces and ceilings

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Further information is available at:

<https://www.master-builders-solutions.com/en-gb/solutions/for-parking-decks>