

Reference

Repair of Airport Parking P6

Mono concrete (homogeneous concrete) made of Concretum® D-ZERO



Setting of the task

Since the carriageway slabs of the airport parking P6 were damaged due to penetration of chlorides, a repair was carried out in summer 2007. The contaminated concrete was mechanically eliminated and replaced with a new building-up. A layer of concrete of 8 cm was inserted with high demands of cracking prevention and workability.

Solution and judgement

As a layer of concrete the cracking-reduced concrete Concretum® D-ZERO was applied together with the high modulus polymer fibers Concretum® SUPERFIBER 40/8. This fiber-reinforced concrete provides very low shrinkage and cracking. In addition Concretum® D-ZERO guarantees a proper workability as a joint-free mono concrete (homogeneous concrete). Its properties that have been defined for an optimal workability offer the possibility to produce a very smooth surface. This is a very important characteristic for the following application of additional layers of the carriageway.

Facts

Products:

D-ZERO, SUPERFIBER 40/8

Duration of the project:

June to July 2007

Building owner:

Zurich International Airport

Realization:

Implenia

Concrete supplier:

HASTAG (Zürich)