

Parking Saas



**Location: Saas Fee,
Switzerland**

Date: 2020

**Contractor: Walo Bertschinger
SA**

Solutions and technologies: Overlay

Introduction

Deformation of the concrete rolling surface, structural deficit in terms of puncture resistance, sloping terrain (5% gradient) ... the equation to be solved for the repair of the covered car park at the Saas-Fee ski resort was arduous. Ductal® took up the challenge and developed an innovative product meeting all these constraints.



Description

To meet the high demands of a complex car park renovation project in the ski resort of Saas-Fee, Ductal® and its R&D team at LafargeHolcim Innovation Center (LHIC) developed a tailor-made formula convincing with its ease of implementation and an excellent surface finish.

Challenge

The parking lot had to be reinforced at the level of the punching. The first solution considered was to cover the whole surface with 2 cm of UHPC. The Overlay application, which consists of covering the deck with a thin layer of Ductal on 5 cm to strengthen and waterproof it, is in fact commonly used in Switzerland, in particular for repairing bridges. The main challenge for the contractor was to work in such restricted space but still gave the perfect surface finish.

Application

The solution of a traditional intervention with Ductal® was difficult to guarantee without visible fibers due to the slope. That's why we developed a new product, easier to implement. After pilot tests with our client, the new formula has successfully passed all the go to market steps. And this is how 70m³ of this new formula Ductal® could be produced and implemented in Saas-Fee as part of this project. The 5 cm high UHPC slabs around the posts look great and give new life to the car park.

