

Sika at work



Roof Strengthening

Garage Roof, Soazza, Switzerland

Structural Strengthening: **Sika® CarboDur® Plates**
Near Surface Mounted System
(NSM)





Project Description

Structural strengthening of a garage roof in Soazza, Switzerland

Project Requirements

Strengthening system to replace missing steel reinforcement in top concrete slab (garage roof), which can be installed in weak, cracked concrete.

Sika Solution

The Sika **CarboDur**[®] Near Surface Mounted system was used to strengthen the garage roof, using **Sika CarboDur S 1.525 Plates** and **Sikadur[®]-330** adhesive. The plates are embedded into slits in the concrete substrate. This application requires no surface preparation and reduces the risk of delamination compared to regular surface mounted **CarboDur[®] Plates**. Being embedded in the resin, the **CarboDur[®] Plates** are protected sufficiently. After the installation of the strengthening system, the roof can again be used as before.

Project Participants

Sika Organisation: Sika Switzerland, Tüffenwies 16, CH-8048 Zürich
Contractor: Rüttimann Bau-Engineering AG, Unterrealta, CH-7408 Cazis

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