SIKA AT WORK

3DCP COLORED COLUMNS FOR A NEW RESIDENTIAL BUILDING, LOSTORF, SWITZERLAND

CONCRETE: Sikacrete® 3D

BUILDING TRUST

FUNCTIONAL AND AESTETIC

PROJECT DESCRIPTION
The new parking garage has 5 custom-made 3DCP colored load-bearing columns that were printed off site, then delivered and fixed into position during construction. After placing, steel reinforcement cages were placed inside the 3DCP forms which were later filled with concrete to form a composite load bearing element.

The design and color of the columns were specified according to the client's specifications and are designed to fit into the overall architectural concept.

Location: Lostorf, Solothurn, Switzerland
Project year: 2021

PROJECT REQUIREMENTS
The project required a short lead delivery time and had to incorporate a stable color in the printing process. The precise color is to fit to the overall architectural concept.

To print the mushroom shape of the columns requires a highly precise and stable printing process. The diameter of the mushroom head is 160 cm and Sika's fast setting concrete printing technology enables such sophisticated elements to be printed.

SIKA SOLUTIONS
Sika provided 3D concrete printing product Sikacrete®-7100 3D and SikaColor®-71 3D to Affentranger Bau AG who printed the columns, using the Sika developed gantry printer.

PROJECT PARTICIPANTS

Owner:	LSU AG, Olten
Architect:	Raumschneiderei GmbH, Olten
Engineer:	suisseplan Ingenieure AG, Aarau
Contractor + 3DCP:	Affentranger Bau AG, Altbüron
	www.affentranger3dcp.ch

SIKA SERVICES AG
Tueffenwies 16
CH-8048 Zurich
Switzerland

Contact
Phone +41 58 436 40 40
www.sika.com

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