



SIKA AT WORK

COMMUNITY FIRE & RESCUE STATIONS, STAFFORDSHIRE, UK

FLOORING: Sika® Ucrete® DP, Sikafloor® TC 373

BUILDING TRUST



DURABLE, SLIP-RESISTANT RESIN FLOORING SOLUTION



PROJECT DESCRIPTION

Project name: Community Fire & Rescue Stations
Location: Staffordshire, United Kingdom
Size: 2,760 m²

Staffordshire Fire and Rescue Service embarked on a multi million-pound project to rebuild seven of its existing fire stations and to construct an additional three stations where fire and rescue resources were needed. The project was government funded through a private finance initiative (PFI), Fire Support, and required the installation of heavy-duty resin flooring in the garage areas, installed by Veitchi using Sika® Ucrete® DP slip-resistant flooring.

PROJECT REQUIREMENTS

A durable, anti-slip finish to the floor was needed, which would be tough enough to take the weight of the engines. Further considerations were suitability for contact with water and other liquids being used in the area and colour demarcation of various areas, as well as the tight construction programme. Good aesthetics were important as the garage areas would be increasingly visible to members of the public thanks to the community facilities available at the stations. Seven of the ten fire stations were rebuilds: this presented the added challenge of remaining operational throughout the works by using temporary fire stations on site.

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SIKA SOLUTIONS

Heavy-duty slip-resistant system Sika® Ucrete® DP 10 was specified to satisfy the level of slip resistance needed in an environment where floors would often be wet during use. In this instance, a further reason for Sika® Ucrete®'s specification was its inherent ability to be applied to a seven-day old concrete slab. Sika® Ucrete® DP 10 was applied to the garage flooring areas at a thickness of approximately 4mm and finished with one coat of Sikafloor® TC 373 in grey or red. The combination of technologies – heavy-duty polyurethane Sika® Ucrete® with an epoxy topcoat – provided the ideal combination of performance characteristics. Sika® Ucrete® gave impact and durability and moisture tolerance to early age screeds with no need for special primers, whilst the epoxy element offered a glossy, low-maintenance, easy clean surface with a measure of light stability.

Sika® Ucrete® DP supported all the client's performance criteria, providing a floor that was durable with excellent wet slip resistance (>45 TSL slip tester in the wet). Despite the large scale of the project (ten sites), the tight deadlines were met using a coordinated approach across multiple locations with two different main contractors to support the construction schedule.

PROJECT PARTICIPANTS

Project Owner:	Staffordshire Fire & Rescue
Designer/Architect/Specifier:	Fire Support consortium
Applicator/Contractor:	Veitchi England Ltd/Thomas Vale Construction plc, Stepnell Ltd

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