

Project:
Community Fire & Rescue
Stations

Location:
Staffordshire

Owner/s:
Staffordshire Fire & Rescue

Applicator/Contractor:
Veitchi England Ltd/
Thomas Vale Construction plc,
Stepnell Ltd

Designer/Architect/Specifier:
Fire Support consortium

Market sector:
Industrial Flooring

Products used & amounts:
Ucrete DP
MasterSeal TC 373

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Community Fire & Rescue Stations, Staffordshire

Durable, slip resistant resin flooring solution



Our reference in Staffordshire (United Kingdom): Community Fire & Rescue Station

The background

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 Ucrete DP slip-resistant flooring.

The challenge

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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Our solution

Heavy-duty slip-resistant system 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 Ucrete's specification was its inherent ability to be applied to a seven-day old concrete slab. Ucrete DP10 was applied to the garage flooring areas at a thickness of approximately 4mm and finished with one coat of MasterSeal TC 373 in grey or red.

Benefits to the customer

- The combination of technologies – heavy-duty polyurethane Ucrete with an epoxy top coat – provided the ideal combination of performance characteristics.
- 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.
- 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).
- In spite of the large scale of the project, totalling 2760m² across the ten sites, Veitchi and Master Builders Solutions were able to deliver the contract to tight deadlines using a coordinated approach across multiple locations with two different main contractors to support the construction schedule.

Projects facts at a glance

- One specification used across multiple locations
- Heavy-duty system with chemical- and slip-resistance
- Colour demarcation to indicate different zones
- A coordinated approach addressed the tight construction schedule
- Large-scale project of 2,760m²

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