Case Study: Seamless Flooring Systems

Chemical & Slip Resistant Aircraft Hangar Flooring at Major UK Airport

Client: Main Contractor, UK Airport

Project: Chemical and Slip Resistant Flooring System to Aircraft Hangar

Product Used: Vebro HB & Vebro HBCR

Area Coverage: 6,000 square metres

Completion: Early August 2026

Project Duration: 3 weeks

Client Requirements

Working on behalf of a main contractor at one of the UK's major airports, Zenith was appointed to install a specialist resin flooring system across a 6,000m² aircraft hangar.

The demanding environment required a robust flooring solution capable of providing excellent chemical resistance, including protection against aviation fuel and other substances associated with aircraft maintenance. Slip resistance was also an important consideration to help create a safer working surface throughout the hangar.

Prior to commencement, a trial area was installed to allow the flooring system to be tested and approved by the client, providing confidence that the proposed specification would meet the operational requirements of the facility.

Further details can be found on the following page.

zenith

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Overview of Works

The existing substrate was initially prepared using orbital sanding to create a suitable surface for the new resin system.

A high-build epoxy resin coating was then applied, with kiln-dried quartz aggregate cast into the wet coating to excess. The surface was allowed to cure overnight before the remaining loose aggregate was thoroughly removed using vacuum and sweeping equipment.

The final application consisted of a high-build, chemically resistant Vebro epoxy resin coating, creating a durable finish designed to withstand exposure to aviation fuels and the demanding conditions found within an operational aircraft hangar.

To complete the project, our team installed line markings and designated boxes to clearly identify the positions of service covers throughout the hangar.

Features & Benefits

The specialist flooring specification combined chemical resistance, durability and slip resistance to meet the operational requirements of the aircraft hangar:

Orbital sanding	Prepared the substrate for effective adhesion of the resin system
High-build epoxy resin coating	Created a durable surface suitable for a demanding hangar environment
Kiln-dried quartz aggregate	Provided enhanced slip resistance across the working area
Vebro HBCR final coating	Delivered increased resistance to aviation fuel and other chemicals
Seamless resin finish	Created a practical, hard-wearing surface that is easier to maintain
Line markings	Clearly defined operational areas within the hangar
Designated service cover boxes	Improved visibility & identification of service cover locations

Further details can be found on the following page.

Outcome

The completed 6,000m² flooring system provides a durable, chemical and slip resistant finish suited to the challenging conditions of an aircraft hangar.

The project was successfully delivered within the three-week programme and agreed budget, with the client expressing extreme satisfaction with the quality of the finished installation.

Contact

For more information, please call us on 024 7668 7167 or email info@zenithcontractservices.co.uk