



SIKA AT WORK

VIRIDOR RREC, GLASGOW

FLOORING:

Sika® Ucrete® IF
SikaEmaco® T 1200 PG
Sika® Ucrete® Primer FS

BUILDING TRUST



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Project Overview

The Viridor RREC (Recycling and Renewable Energy Centre) in Glasgow is a vital facility processing 222,000 tonnes of residual waste annually. This state-of-the-art centre converts waste into renewable energy, supplying electricity to 26,496 households and heat to 8,000 homes. To support these demanding operations, Viridor required a highly durable, chemical-resistant flooring system that could withstand the extreme conditions of a waste management environment. TPS360 was contracted to install a Sika® UCRETE® IF resin flooring system in key areas of the facility. UCRETE® IF was selected due to its proven performance in similar environments at other Viridor sites, offering exceptional durability, rapid installation, and long-lasting protection against mechanical wear and chemical exposure.

Scope of Works

Surface Preparation

Planetary grinding and scarifying were used to remove contaminants and smooth the surface, ensuring optimal adhesion of the resin flooring.

Rebar Replacement

In areas with deteriorated steel reinforcement, TPS360 replaced the rebar to restore the substrate's structural integrity, preparing it for the demands of the facility.

Levelling

Damaged and uneven sections were repaired using SikaEmaco® T 1200 PG, creating a strong, level substrate for the resin installation.

Installation of Ucrete IF

The Sika® UCRETE® IF resin was applied at a 15mm thickness, providing a seamless, resilient surface capable of withstanding heavy traffic, chemical exposure, and thermal cycling.

Challenges

One of the major challenges of the Viridor RREC project was maintaining the facility's 24-hour operation without disruption. Given the critical nature of the waste management processes, it was essential that the installation of the flooring system did not cause any downtime. To address this, TPS360 phased the work, carefully coordinating with the client to ensure that all essential areas remained fully operational throughout the project.

In addition to the phased installation, TPS360 faced the challenge of preparing and levelling a damaged substrate, which was handled using advanced surface preparation techniques and high-performance levelling compounds. These solutions, combined with meticulous planning and communication, allowed TPS360 to meet the client's strict timelines without impacting the facility's continuous operations.

"The project presented unique challenges, especially working in a live operational environment. our team's ability to deliver high-quality flooring solutions, while adhering to strict safety and operational protocols, is a testament to TPS360's commitment to excellence. We're proud to have played a key role in enhancing the facility's operational resilience, ensuring that Viridor can continue its critical work in the energy sector with minimal disruption."

Scott Barclay
Operations Director, TPS360

Any product name or reference reflects the Sika product name at the time of creation of this document and may differ from the product name or reference during past events.

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