



SIKA AT WORK

High Performance Flooring for Animal Research Facilities

BUILDING TRUST

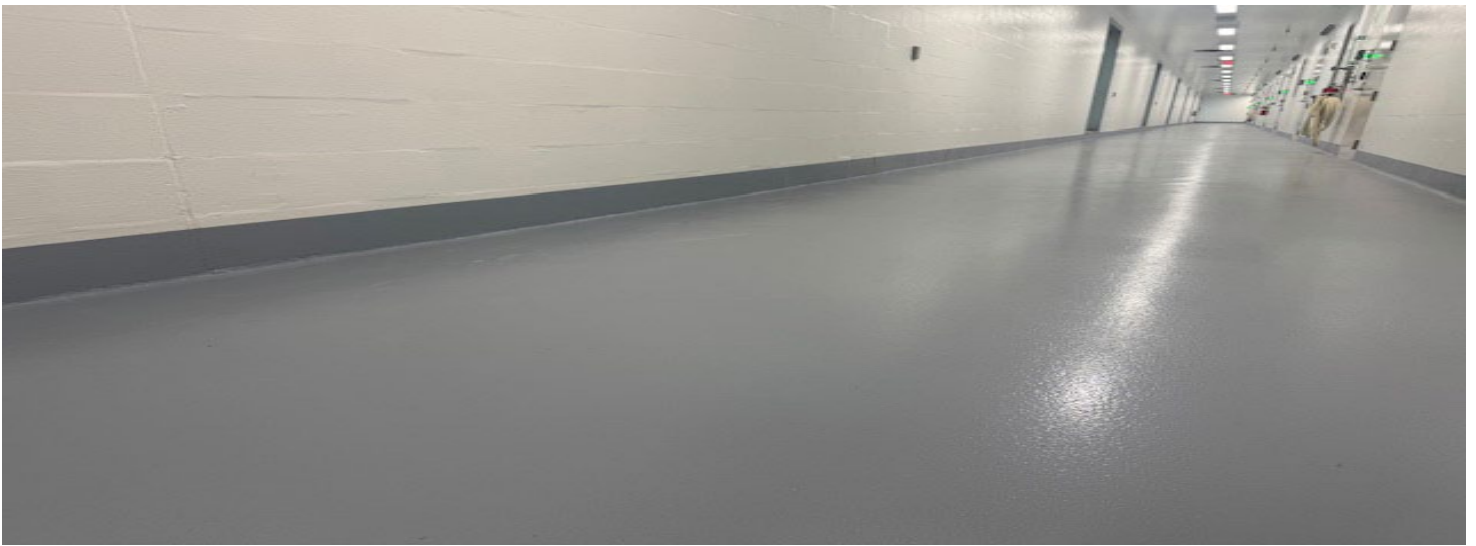


High-Performance Flooring for a Poultry Research Facility

Project Overview

Summit Industrial Flooring, a Sikafloor Application Partner, was selected to provide high-performance flooring systems for a state-of-the-art BSL-3 poultry facility in the Southeastern US. This federally-funded facility conducts critical work on avian diseases, emerging pathogens, and poultry health—work that demands flooring systems capable of withstanding aggressive chemical decontamination protocols, thermal cycling from steam sterilization, and the stringent standards required for Biosafety Level 3 certification.

The multi-phase project encompassed BSL-3 holding areas, ABSL-3 research spaces, ante rooms, clean corridors, decontamination zones, and support areas. Summit's scope included surface preparation, crack repair, moisture mitigation, and installation of seamless urethane cement flooring with integral cove bases throughout all critical containment areas.



Clean corridor featuring Sika Ucrete, a seamless cementitious urethane flooring with an integrated cove base.

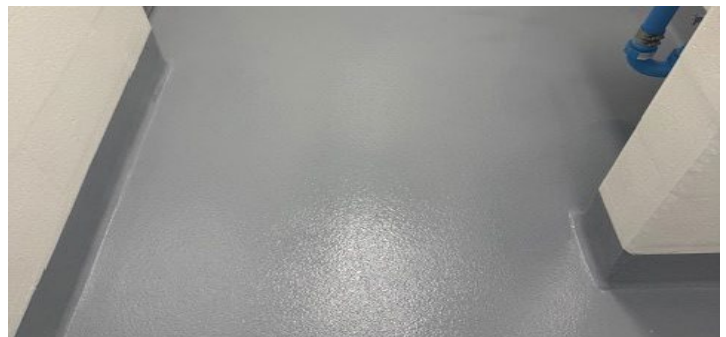
The Challenge

Biosafety Level 3 laboratories present flooring challenges that far exceed typical industrial environments. The facility required flooring systems that could withstand repeated exposure to aggressive disinfectants—including sodium hypochlorite (bleach), formaldehyde, hydrogen peroxide, and peracetic acid—while maintaining the seamless, impermeable surfaces essential for containing pathogens and enabling complete decontamination.

The flooring system provides a completely seamless, monolithic surface from floor to wall. Integral 6-inch sanitary cove bases were installed in all containment areas, eliminating the 90-degree junction between floor and wall where pathogens could harbor.



BSL-3 clean room with seamless floor-to-wall transitions.



Ante room with integral cove base and floor drain.

The Solution

Summit specified and installed Sika urethane cement flooring systems throughout all critical biocontainment areas. Urethane cement was selected for its exceptional chemical resistance, thermal shock tolerance, and antimicrobial properties—characteristics essential for BSL-3 laboratory environments where floors are routinely subjected to harsh decontamination protocols and steam cleaning.

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BSL-3 holding area featuring Sika Ucrete seamless flooring with containment equipment.

Technical Considerations

Chemical Resistance: BSL-3 laboratories require routine decontamination with aggressive chemicals. The urethane cement system provides documented resistance to sodium hypochlorite (bleach) at concentrations up to 10%, formaldehyde solutions, hydrogen peroxide, peracetic acid, and other common laboratory disinfectants.

Thermal Shock Resistance: Unlike standard epoxy or polyurethane coatings that can crack or delaminate under thermal stress, urethane cement systems tolerate rapid temperature changes from steam cleaning and autoclaving equipment—maintaining integrity through thermal cycles from freezing to 250°F.

Seamless Biocontainment: The monolithic flooring system, combined with integral cove bases and sealed penetrations, creates a continuous impermeable surface that prevents pathogen harborage and enables complete facility decontamination.



Corner detail showing integral cove base continuity.



Holding area with stainless steel equipment integration.

Project At A Glance

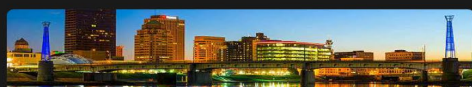
- Sika Ucrete Cementitious Urethane Flooring
- Integrated 6" sanitary Sika cove base throughout
- Seamless floor-to-wall transitions
- Chemical-resistant Sikafloor top coat system
- Sikafloor ESD anti-static protection (select zones)
- Penetration sealing and waterproofing
- Concrete crack repair and moisture mitigation



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Dayton-Cincinnati, OH

CORPORATE HEADQUARTERS

3065 Dryden Road
Moraine, OH 45439

(937) 322-2710



Charleston, SC

REGIONAL OFFICE

3340 Business Cir.
North Charleston, SC 29418

(843) 278-7535



Raleigh, NC

REGIONAL OFFICE

4900 Thornton Road, Ste 121
Raleigh, NC 27616

(919) 355-8577

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SIKA CORPORATION—FLOORING

201 Polito Avenue
Lyndhurst, NJ 07071
Tel (844) 529-7101
sikafloorusa.com

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