

Epoxy Flooring

A Slip- and Impact-Resistant Flooring System

Market: Institutional

Project: The Université de Montréal's Main Wing

Products: Sikafloor® 261^{CA} – Systems 5 and 6

Challenge: To replace a delaminated, coloured, quartz floor installed 30 years ago

Solution: A slip-, impact- and delamination-resistant flooring system

Long-lasting change, at long last: When a face-lift is much more than cosmetic.



The trademark, worn, coloured quartz floor in the Université de Montréal's main wing had definitely seen better days: it had admirably borne the traffic of countless students, but thirty years of constant use had left its mark.

The quartz, set on slate tiles which in turn had been installed over a concrete slab over a bed of sand, had greatly deteriorated. The multiple layers were beginning to delaminate and holes had started to appear in the floor.

Sika was asked to intervene and offer a solution. The objective was clear: to create a shock-absorbent, delamination-proof, slip-resistant floor surface able to withstand heavy traffic and heavy loads for years to come.

Sikafloor® 261 to the rescue.

The first step in the replacement process was to remove the old, existing floor. In total, 50 mm of flooring was removed and the stripped concrete slab coated with an acrylic bonding agent. After a few days, a new 50 mm thick concrete slab was poured. To guarantee the slab's stability, it was allowed to fully cure over a 21 day period at a humidity level of 4%.

Once this stage was completed, Sikafloor® 261^{CA} - Systems 5 and 6 were installed. The first step involved applying a self-levelling top coat, followed by a coat of Sikafloor® 2003 to create a slip-resistant finish. The final stage consisted of filling the control joints with Loadflex®, a load-bearing, self-levelling, control-joint filler.

The main wing has never looked better.

To the delight of the university's administration, the Sikafloor® 261 System still looks great more than 18 months later. Neither the thousands of students which crowd the area nor the heavy equipment which rolls across its surface every day have gotten the better of the Sikafloor solution!



Products Used:

Sikafloor® 261^{CA} - System 5

A leading-edge technology, self-levelling, smooth surfacing material, 2 - 4 mm (80 - 160 mils) thick, which produces an aesthetic, high gloss, seamless floor.

The System offers:

- Good chemical resistance
- A superior aesthetic finish
- Durability and a water-proof, seamless finish
- Ease of cleaning and maintenance, for a cleaner and healthier environment

Furthermore, it:

- Does not support growth of bacteria or fungus
- Has a neutral odour
- Is available in an unlimited array of colours, with no minimum quantity required
- Is approved by the Canadian Food Inspection Agency (CFIA) and the United States Department of Agriculture (USDA)

Sikafloor® 261^{CA} - System 6

A 3 - 6 mm (120 - 240 mils) thick, leading-edge technology mortar screed, used to produce an aesthetic, solid-coloured, seamless floor. It offers:

- Superior mechanical resistance
- High abrasion and impact resistance
- Good chemical resistance
- An aesthetic finish
- Durability and a water-proof, seamless finish
- Ease of cleaning and maintenance for a cleaner and healthier environment

Furthermore, it:

- Does not support growth of bacteria or fungus
- Has a neutral odour
- Is available in an unlimited array of colours, with no minimum quantity required
- Is approved by the CFIA and the USDA

Additional Products Used:

Sikafloor® 2002/ Sikafloor® 2003

Sikafloor® 2002/Sikafloor® 2003 is a gloss or satin-finish, clear epoxy top coat which provides an abrasion-, shock- and chemical-resistant finish. The top coat is:

- Durable
- Water-proof
- Approved by the CFIA

It offers:

- Superior mechanical and chemical resistance
- Superior aesthetic finish
- Ease of maintenance
- Fade resistance

Loadflex®

An epoxy-urethane, self-levelling joint filler for interior, horizontal, sawed or pre-formed control joints. This product:

- Is a hard, load-bearing sealant designed to withstand industrial traffic
- Provides for even load transfer across floor joints, thereby protecting joint edges from breakdown
- Seals joints and protects them from collecting dirt, dust and debris
- Is easily installed by pouring or gunning
- Provides for the excess material to be shaved off smooth as early as 12 hours after installation
- Is approved by the CFIA



Sika Canada Inc.
601 Delmar Avenue
Pointe-Claire, QC H9R 4A9
Tel.: 514-697-2610
Fax: 514-697-3087

Ontario
6915 Davand Drive
Mississauga, ON L5T 1L5
Tel.: 905-795-3177
Fax: 905-795-3192

Alberta
18131-114th Avenue N.W.
Edmonton, AB T5S 1T8
Tel.: 780-486-6111
Fax: 780-483-1580

1-800-933-SIKA
www.sika.ca

An ISO 9001:2000 certified company
Pointe-Claire : ISO 14001:2004 certified EMS