

Epoxy Floor

Smooth, high-gloss system resistant to UV light and abrasions

Marketplace	Manufacturing
Projet	Sika Canada Inc. manufacturing facilities, Pointe Claire, Quebec
Product	Sikafloor® 2000 Quartz Coloré
Challenge	Create an attractive, level and damage-resistant floor
Solution	Attractive, high-strength, multi-colour, waterproof, seamless floor

From vendor to customer

Construction

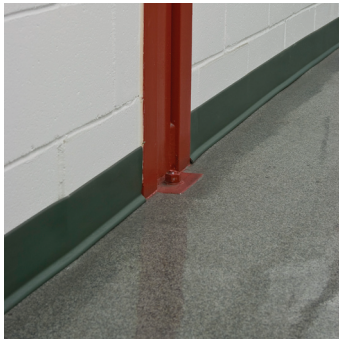


When Sika Canada Inc.'s manufacturing capacity could no longer keep up with demand, plans were drawn up to convert an under-utilized storage area into an additional production area. Construction got under way, and attention quickly turned to the corridor which would link the new space to the administrative offices.

The corridor's existing floor was drawing criticism from the sales representatives and employees alike: like the cobbler's children who always go barefoot, Sika needed to turn its attention to its own flooring needs.

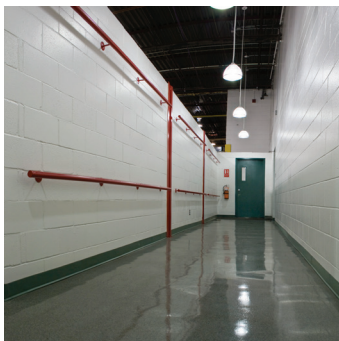
A new floor...for the leading epoxy flooring manufacturer

Our Sika Flooring Specialists were all in agreement: the unlevelled floor would present many challenges. In certain areas, the floor would need to be dug out; in others, it would need to be built up significantly. There were many doors leading onto the corridor and the final product would have to be both attractive and abrasion-, impact- and wear-resistant.



After levelling the concrete substrate, large cracks appeared which were filled with Sika® Loadflex®, a product designed, amongst other things, to repair random cracks in concrete slabs. The following day, the excess material was shaved off and, to prevent the reappearance of the cracks, the surface covered with a layer of Sika® Glassfibre Fabric #270 sandwiched between two layers of Sikafloor® 90, a transparent epoxy resin.

Once everything had properly cured, the entire surface was sanded and cleaned and a layer of Sikafloor® Screed – chosen for its ease of application – trowel-applied. The Sikafloor® Screed was broadcast with sand to improve the adhesion of the following coat and to avoid further sanding. A coat of Sikafloor® 261^{CA} was then applied to seal the screed, and broadcast with grade 40 silicate sand.



The preparatory work completed, metal Terrazzo separators were installed in each doorway and the matrix applied as follows: on the first day, a primer coat of Sikafloor® 2000 Quartz Coloré was applied; over the still-sticky primer coat, a second coat, to which had been added coloured aggregate at a rate of 2 parts grade 18 coloured silicates to one part grade 32 silicate sand, was trowel-applied.

The following day, a 10 mils thick coat of Sikafloor® 2002 was applied, followed by a 15 mils coat of the same product a day later. On the fourth and last day, a coat of Sikafloor® Polythane UV® was applied to complete the application process.

Today, Sika personnel no longer complain about the corridor -- and everyone seems quite proud to take visitors through to the plant.

Products Used

Sikafloor® 2000 Quartz Coloré

A clear, two-component, solvent-free, 100% solids, high-strength, non-blushing, epoxy-resin used as a primer and to bind the pre-blended coloured quartz aggregates for the trowelled Sikafloor® 2000 Quartz Coloré system. The advantages offered are as follows:

- Durable and seamless
- Impermeable
- Superior mechanical and chemical resistance
- Superior aesthetic finish
- Provides a cleaner, safer and more sanitary work environment
- High density prevents dirt penetration which makes it easy to clean
- Low maintenance
- Does not support growth of bacteria or fungus
- Solvent-free
- Integral base and curbs can be prepared without seams or joints
- Available with gloss or satin finishes
- Available in 16 standard colour patterns (refer to Sikafloor® Quartz Coloré colour guide for more details)
- Canadian Food Inspection Agency acceptance

Sikafloor® 2002

A clear, two-component, solvent-free, 100% solids, high-strength, epoxy-resin gloss- or satin-finished top coat to protect coloured, epoxy resin-based flooring systems against mild chemical attack and wear.

- Durable
- Impermeable
- Superior mechanical and chemical resistances
- Superior aesthetic finish
- Low maintenance
- Fade resistant
- Canadian Food Inspection Agency acceptance

Sikafloor® Polythane UV®

A two-component, clear or coloured polyol aliphatic polyurethane coating specifically formulated to provide high abrasion and UV resistance. It offers:

- High resistance to abrasion and yellowing
- Good chemical resistance such as with alkalis, some solvents and moderate strength acids
- Easy maintenance
- Hard yet flexible film
- Availability in decorative colours
- Convenient mixing ratio 2:1
- Excellent mar-resistance
- Better impact resistance
- High gloss and colour retention on exterior surfaces
- Ultraviolet light resistance coat
- High wear properties
- Good stain-resistance
- Good weathering
- Impermeability

Complementary Products

Sika® Loadflex®

A two-component, epoxy-urethane, catalyst-cured, self-levelling sealant for load bearing saw-cut or preformed control joints or for repairing interior concrete slabs that have experienced random cracking due to shrinkage.

- 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 from collecting dirt, dust, and debris
- Easily installed by pouring or gunning
- Excess material can be shaved off smooth after as little as 12 hours
- Canadian Food Inspection Agency acceptance

Sikafloor® 90

A clear, solvent-free, low-viscosity, epoxy flooring resin.

- No amine blush.
- Super low viscosity.
- High chemical resistance to moderate chemical agents at ambient temperature.
- Excellent penetration and high bond strength on cement based substrates.
- High mechanical strength.
- Can be applied by brush, roller, squeegee or airless spray gun.
- Canadian Food Inspection Agency acceptance/United States Department of Agriculture acceptance.

Sikafloor® Screed

A two-component, 100% solids, low-viscosity epoxy, applied as a broadcast or mortar screed flooring system. It offers:

- High early abrasion-resistance
- Low odour during application
- Canadian Food Inspection Agency acceptance/United States Department of Agriculture acceptance

Sikafloor® 261^{CA}

A multi-purpose, epoxy-resin based binder used to create a variety of flooring systems.

- Easily-applied
- Good mechanical- and chemical-resistance
- Good adherence to substrate
- Aesthetic, hard-wearing, impermeable and joint-free
- Easy to clean and maintain
- Does not support growth of bacteria or fungus
- Neutral odour
- Available in unlimited array of colours; no minimum quantities required
- Approved by the Canadian Food Inspection Agency and the United States Department of Agriculture



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