



PRODUCT DATA SHEET

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FLUID-APPLIED FLOORING

Sikafloor® DecoFlake® System

DECORATIVE FLAKE FLOORING SYSTEM, 1.5 - 3 MM (1/16 - 1/8 IN)

Description	Sikafloor® DecoFlake® is an aesthetic, easy to clean, seamless floor consisting of a coloured epoxy binder, broadcast with multi-coloured vinyl chips and sealed with transparent, UV stable topcoats. The system is highly customizable with an extensive colour palette and variable application thicknesses. Final surface options include: integral cove base, gloss satin or matte surface sheen and variable surface texture to produce a range of slip-resistant finishes.
Where to Use	<ul style="list-style-type: none"> ▪ Restaurant and cafeteria seating areas. ▪ Commercial kitchen and food preparation areas. ▪ Grocery, department and retail stores. ▪ Light to medium duty production areas. ▪ Pharmaceutical laboratories, production rooms and offices. ▪ Hospitals, laboratories and health care facilities. ▪ Museums and galleries. ▪ Commercial lobbies and office areas. ▪ Animal shelters and veterinary clinics.
Advantages	<ul style="list-style-type: none"> ▪ A seamless surface that is easy to clean and maintain. ▪ An impermeable and waterproof surface. ▪ High abrasion and impact resistance. ▪ Good chemical resistance. ▪ Optional integral base and curbs can be installed without seams or joints. ▪ Canadian Food Inspection Agency acceptance. ▪ Low odour / low VOC. ▪ A highly customizable aesthetic multi-coloured finish. ▪ Glossy aesthetic finish. ▪ Variable surface texture to produce a range of slip-restraint finishes. ▪ Optional satin or matte surface sheen. ▪ Optional crack bridging, flexible membrane available. ▪ Available in 12 standard colour blends.

Technical Data		
Packaging	Sikafloor®-261^{CA}	10 L and 30 L (2.6 and 7.9 US gal) units
	Sikafloor®-2002	10 L and 30 L (2.6 and 7.9 US gal) units
	Sikafloor® DecoFlake®	22.7 kg (50 lb) bag
Colour	12 standard colour patterns, refer to Sikafloor® DecoFlake® Colour Guide (custom colour blends available on request)	
Yield System Thickness		
1.5 mm (1/16 in)	Primer	Sikafloor®-261 ^{CA} applied at 5 m ² /L (203 ft ² /US gal) (8 mils w.f.t.)
	Body coat	Sikafloor®-261 ^{CA} applied at 2 m ² /L (80 ft ² /US gal) (20 mils w.f.t.) broadcast multi-coloured Sikafloor® DecoFlake® flakes to saturation onto wet body coat. Approximately 1 kg/m ² (20 lb/100 ft ²)
	Grout coat	Sikafloor®-2002 applied at 4 m ² /L (163 ft ² /US gal) (10 mils w.f.t.)
	Finish coat	Gloss Finish: Sikafloor® 2002 applied at 8 m ² /L (325 ft ² /US gal) (5 mils w.f.t.)
3 mm (1/8 in)	Primer	Sikafloor®-261 ^{CA} apply at 5 m ² /L (203 ft ² /US gal) (8 mils w.f.t.) broadcast mono colour quartz aggregate to saturation (using the predominant colour of the flake blend) onto the wet primer approximately 5 kg/m ² (1 lb/ft ²) to build layer thickness
	Body coat	Sikafloor®-261 ^{CA} applied at 1.3 m ² /L (53 ft ² /US gal) (30 mils w.f.t.) broadcast multi-coloured Sikafloor® DecoFlake® flakes to saturation onto wet body coat. Approximately 1 kg/m ² (20 lb/100 ft ²)
	Grout coat	Sikafloor®-2002 applied at 4 m ² /L (163 ft ² /US gal) (10 mils w.f.t.)
	Finish coat	Gloss Finish: Sikafloor®-2002 applied at 8 m ² /L (325 ft ² /US gal) (5 mils w.f.t.)
Shelf Life	2 years in original unopened packaging. Store dry between 5 - 32°C (41 - 89°F) Condition product to 18 - 30 °C (65 - 86 °F) before use.	

Properties at 23 °C (73 °F) and 50 % R.H.(Sikafloor®-261^{CA} base coat & Sikafloor® 2002 top coat)

Solids content	100 %
Pot Life 250g (8.8oz.)	30 - 40 min
Shore D (7 days) ASTM D2240	85
Elongation ASTM D638	4%
Tensile Strength ASTM D638	28 MPa (4061 psi)
Compressive Strength ASTM C579	70 MPa (10 152 psi)
Flexural Strength ASTM C580	83 MPa (12 038 psi)
Modulus of Elasticity ASTM C580	1287 MPa (186 663 psi)
Flammability ASTM D635	Self extinguish
Water Absorption (2h boil) ASTM D570	< 0.36 %

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

HOW TO USE

Surface Preparation The concrete surface must be clean and sound. Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations, wax, foreign matters, coatings and deleterious material from the surface by appropriate mechanical means, in order to achieve a surface profile equivalent to ICRI-CSP 3-5. The compressive strength of the concrete should be at least 25 MPa (3625 psi) at 28 days and at least 1.5 MPa (218 psi) in tension at the time of application of Sikafloor® DecoFlake® System resins.

Mixing Pre-mix each component. Empty component B into the container of component A or add component B in the correct mix ratio to component A in a separate clean mixing pail. Mix for three (3) minutes using a low-speed drill (300 - 450 rpm) to minimize entrapping air. Use an *Exomixer*® type mixing paddle (recommended model). During the mixing operation, scrape down the sides and bottom of the pail with a flat or straight edge trowel at least once to ensure thorough mixing. When completely mixed, the Sikafloor® resin should be uniform in color and consistency. Mix only that quantity that can be used within its pot life.

Application **Sikafloor® DecoFlake® 1.5 mm System**
(see coverage rates detailed under Yield section above)

Step 1: Primer - Apply neat Sikafloor®-261^{CA} over the slab as a primer using a brush, roller or squeegee at a uniform coverage without ponding. Remove excess in case of ponding. Allow primer to cure sufficiently to be able to resist foot traffic without damaging the surface.

Step 2: Body Coat - Apply neat binder Sikafloor®-261^{CA} over primed surface using a notched squeegee and back roll immediately with a roller to provide a uniform surface.

Step 3: Broadcast Application - Broadcast pre-blended DecoFlake® into the binder to saturation. Broadcast in a manner so that DecoFlakes® fall vertically into the binder. Broadcast to the maximum fill rate. This will provide a completed application, resulting in dry broadcast DecoFlakes® covering the entire surface. Allow broadcast system to cure sufficiently to be able to resist foot traffic without damaging the surface. Remove excess DecoFlakes® from the surface. Removal of excess DecoFlakes® is carried out by sweeping, followed by vacuuming, until surface is free of all loose particles and dust. Note: When necessary, lightly sand with 100 grit disk to remove imperfections, after sweeping up DecoFlakes® and before vacuuming.

Step 4: Grout Coat - Apply Sikafloor®-2002 using a non-marking squeegee and back roll to a uniform gloss without ponding.

Step 5: Finish Coat - Once the Grout coat is cured, lightly sand to remove minor surface imperfections. Remove all sanding debris using an industrial vacuum. Roll apply finish coat of Sikafloor®-2002 to a uniform gloss without ponding. Refer to specific product data sheet for further details.

Note: Optional top coats can be applied to change the surface sheen; Sikafloor®-317 will produce a matte appearance, Sikafloor®-318 will produce a satin finish. Sika Canada strongly recommends that a test area be applied to confirm specific top coat selection and application rates required to produce the desired final appearance.

Sikafloor® DecoFlake® 3 mm System
(see coverage rates detailed under Yield section above)

Step 1: Primer - Apply neat Sikafloor®-261^{CA} over the slab as a primer using a brush, roller or squeegee at a uniform coverage without ponding. Remove excess in case of ponding. Broadcast mono colour quartz aggregate to saturation (using the predominant colour of the flake blend) onto the wet primer. Allow primer to cure sufficiently to be able to resist foot traffic without damaging the surface. Once cured, sweep and vacuum excess aggregate from surface before applying the Body coat.

Step 2: Body Coat - Apply neat binder Sikafloor®-261^{CA} over primed surface using a notched squeegee and back roll immediately with a roller to provide a uniform surface.

Step 3: Broadcast Application - Broadcast pre-blended DecoFlake® into the binder to saturation. Broadcast in a manner so that DecoFlakes® fall vertically into the binder. Broadcast to the maximum fill rate. This will provide a completed application, resulting in dry broadcast DecoFlakes® covering the entire surface. Allow broadcast system to cure sufficiently to be able to resist foot traffic without damaging the surface. Remove excess DecoFlakes® from the surface. Removal of excess DecoFlakes® is carried out by sweeping, followed by vacuuming, until surface is free of all loose particles and dust. **Note:** When necessary, lightly sand with 100 grit disk to remove imperfections, after sweeping up DecoFlakes® and before vacuuming.

Step 4: Grout Coat - Apply Sikafloor®-2002 using a non-marking squeegee and back roll to a uniform gloss without ponding.

Step 5: Finish coat - Once the Grout coat is cured, lightly sand to remove minor surface imperfections. Remove all sanding debris using an industrial vacuum. Roll apply finish coat of Sikafloor®-2002 to a uniform gloss without ponding. Refer to specific product data sheet for further details.

Note: Optional top coats can be applied to change the surface sheen; Sikafloor®-317 will produce a matte appearance, Sikafloor®-318 will produce a satin finish. Sika Canada strongly recommends that a test area be applied to confirm specific top coat selection and application rates required to produce the desired final appearance.

Clean Up	Clean all tools and equipment with Sika® Epoxy Cleaner. Once hardened, product can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.
Limitations	<ul style="list-style-type: none"> ▪ Sikafloor® DecoFlake® systems are best installed by skilled and experienced applicators. Contact Sika Canada Technical Sales for advise and recommendations. ▪ Minimum / Maximum substrate temperature 10 °C/30 °C (50 °F/86 °F). ▪ Maximum relative humidity during application and cure: 85 %. ▪ Substrate temperature must be 3 °C (5.5° F) above the measured dew point. ▪ Moisture content of the substrate must be <4 % when the system is applied or use Sikafloor®-81 EpoCem®CA. ▪ Do not apply to porous surfaces where moisture vapour transmission will occur during application. ▪ Not suitable for use on exterior, slab-on-grade concrete substrates. ▪ Protect from dampness, condensation and water contact during the initial 24 hour cure period. ▪ Sikafloor® DecoFlake® is highly UV stable but may discolour in areas exposed to constant ultraviolet light. ▪ Do not hand mix Sikafloor® materials / mechanical mix only.
Health and Safety Information	For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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