



PRODUCT DATA SHEET

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QUARTZ FLOORING

Sikafloor® Quartzite® Broadcast System

DECORATIVE EPOXY MULTICOLOURED QUARTZ BROADCAST FINISH

Description Sikafloor® Quartzite® Broadcast System is a seamless, aesthetic, 3 mm (1/8 in) thick, broadcast and sealed epoxy floor, composed of multicoloured quartz aggregates finished with transparent top coats. The system provides a durable, impermeable lightly textured, slip resistant finish with superior mechanical and chemical resistance. Final surface appearance 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**
- Grocery stores.
 - Food packing rooms.
 - Commercial kitchens.
 - Department stores.
 - Factories.
 - Pharmaceutical laboratories and offices.
 - Hospitals, laboratories and health care facilities.
 - Museums and galleries.
 - Banks, office and government buildings.
 - Recreational facilities, change rooms and showers

- Advantages**
- Durable and seamless.
 - Impermeable.
 - Superior mechanical and chemical resistance.
 - Superior aesthetic finish.
 - Provides a cleaner, safer and more sanitary work environment.
 - Low maintenance.
 - Does not support growth of bacteria or fungus.
 - High density prevents dirt penetration, which provides easy cleaning.
 - Low odour / low VOC.
 - Integral base and curbs can be prepared without seams or joints.
 - Glossy aesthetic finish.
 - Optional satin or matte surface sheen.
 - Optional crack bridging, flexible membrane available.
 - Available in 12 standard colour patterns.
 - Canadian Food Inspection Agency acceptance.

Technical Data		
Packaging	Sikafloor® Duochem-9205	28.35 L (7.48 US gal.) unit
	Sikafloor® Broadcast	
	Quartz Aggregate	22.7 kg (50 lb) bag
Colour	Sikafloor®-2002	10 L and 30 L (2.6 and 7.9 US gal.) units
		12 standard colour patterns, refer to Sikafloor® Quartzite® Colour Guide (custom colour blends available on request)
Yield		
Primer	Sikafloor® Duochem-9205	4 m ² /L (160 ft ² /US gal.) at 10 mils w.f.t.
1st Broadcast	Sikafloor® Duochem-9205	2.6 m ² /L (106 ft ² /US gal.) at 15 mils w.f.t.
	Sikafloor® Broadcast	
2nd Broadcast	Quartz Aggregate	3 kg/m ² (60 lb/100 ft ²)
	Sikafloor® Duochem-9205	2.0 m ² /L (80 ft ² /US gal.) at 20 mils w.f.t.)
	Sikafloor® Broadcast	
Top Coat	Quartz Aggregate	4 kg/m ² (80 lb/100 ft ²)
	Sikafloor® 2002	2 - 4 m ² /L (80 - 160 ft ² /US gal.) at 10 - 20 mils w.f.t.
Shelf Life	NOTE: Yield and coverage figures provided above do not allow for surface profile, porosity or wastage 2 years for resins in original unopened packaging. Store dry between 5 and 32 °C (41 and 89 °F). Condition product between 18 and 30 °C (65 and 86 °F) before using.	

Properties at 23 °C (73 °F) and 50 % R.H.

Service Temperature	(min. / max.) 0 °C / 50 °C (32 °F / 122 °F)
Drying Times	Refer to Sikafloor® Duochem-9205 and Sikafloor®-2002 product data sheets.
Cure Time (completed system)	
Foot Traffic	12 hour
Light Traffic	3 days
Normal Traffic	7 days
Chemical Exposure	7 days
<i>Drying times will vary according to air and substrate temperature and humidity.</i>	
Shore D Hardness ASTM D2240	85
Compressive Strength ASTM C579	
5-6 mm/minute	51.8 MPa (7511 psi)
Tensile Strength ASTM C307	
5-6 mm/minute	9.2 MPa (1334 psi)
Flexural Strength ASTM C580	15.9 MPa (2306 psi)
22.9 cm (9 in) at 3.4 mm/min	
Modulus of Elasticity in Flexion ASTM C580	
22.9 cm (9 in) at 3.4 mm/min	4897 MPa (710 065 psi)
Bond Strength ASTM D4541	> 4.2 MPa (> 609 psi) (substrate failure)
Flammability ASTM D635	Self-extinguish
Water Permeability and Absorption ASTM D570	
24 hours permeability	2.9 g/m ²
24 hours immersion	0.05 %
7 days immersion	0.19 %
2 hours immersion in boiling water	-0.02 %

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 any appropriate mechanical means, in order to achieve a profile equivalent to ICRI-CSP 3-4. 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® Duochem-9205.

Mixing

Pre-mix each component. Empty component B into component A pail or add component B in the correct mix ratio to component A. 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. Upon completion of mixing, Sikafloor® Duochem-9205 / Sikafloor®-2002 should be uniform in colour and consistency. Mix only that quantity you can use within its pot life.

Application

Primer: Apply neat Sikafloor® Duochem-9205 over the prepared concrete slab as a primer using a brush, roller or squeegee at a uniform coverage without ponding. Allow primer to cure sufficiently to be able to resist foot traffic without damaging the surface.

1st Broadcast: When the primer coat has cured sufficiently to allow foot traffic, apply a neat broadcast binder coat of Sikafloor® Duochem-9205 by squeegee and backroll immediately with a roller to provide a uniform surface. Broadcast pre-blended Sikafloor® Broadcast Quartz Aggregate into the wet Sikafloor® Duochem-9205 binder, to “saturation”. Broadcast in a manner so that the aggregate falls vertically into the binder. Allow the 1st broadcast layer to cure sufficiently to be able to resist foot traffic, without damaging the surface, before proceeding with the second broadcast application.

2nd Broadcast: Remove excess aggregates from the 1st broadcast layer by sweeping up, followed by vacuuming until the surface is free of all loose particles and dust. **Note:** When necessary, lightly abrade the surface to remove imperfections after sweeping up aggregate and before final vacuuming. Apply a neat broadcast binder coat of Sikafloor® Duochem-9205 using a squeegee and backroll immediately with a roller to provide a uniform surface. Broadcast preblended Sikafloor® Broadcast Quartz Aggregate into the wet binder to “rejection”. Broadcast in a manner so that aggregate falls vertically into the binder. Allow the 2nd broadcast layer to cure sufficiently to be able to resist foot traffic, without damaging the surface, before proceeding with the top coat.

Top Coat: Remove excess aggregates from the 2nd broadcast layer by sweeping up, followed by vacuuming until the surface is free of all loose particles and dust. **Note:** When necessary, lightly abrade the surface to remove imperfections after sweeping up aggregate and before final vacuuming. Apply Sikafloor®-2002 top coat using a non-marking squeegee or flexible steel trowel, followed by backrolling to provide a uniform texture and gloss finish.

Note: The final surface texture and glossy appearance of the finished floor is highly dependent upon the specific application rate of the Sikafloor®-2002 top coat. Application at 10 mils will produce a medium texture with good gloss; application at 20 mils will produce a fine texture with a high gloss appearance.

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**
- Sikafloor® Quartzite® Broadcast System is best installed by experienced applicators. Consult Sika Canada Technical Sales for advice and recommendations.
 - Not suitable for use on exterior, slab-on-grade concrete substrates.
 - 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 coating is applied or use Sikafloor®-81 EpoCem®CA as an underlying moisture/vapour control measure.
 - Do not apply to porous surfaces where moisture vapour transmission will occur during application.
 - Do not hand mix Sikafloor® materials; mechanical mix only.
 - Protect from dampness, condensation and water contact during the initial 24 hour cure period.
 - Surface may discolour in areas exposed to constant ultraviolet light.
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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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