



**PRODUCT DATA SHEET**

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FLUID-APPLIED FLOORING

# Sikafloor® Duochem-9200

## CLEAR EPOXY BINDER RESIN FOR TROWELLED QUARTZ SYSTEM

<b>Description</b>	Sikafloor® Duochem-9200 is a two component, high solids, low odour, low VOC, high strength, high gloss, clear epoxy resin. Typically used as a binder for trowel-applied floor systems. Sikafloor® Duochem-9200 is a primary component resin used as a clear binder for installation of decorative, multicolored quartz aggregate. This general service epoxy resin demonstrates good mechanical and chemical resistance.
<b>Where to Use</b>	As a primer, binder and grout coat for trowel quartz system.
<b>Advantages</b>	<ul style="list-style-type: none"> <li>▪ Easy to mix.</li> <li>▪ Low VOC content.</li> <li>▪ Good chemical resistance.</li> <li>▪ Good abrasion resistance.</li> <li>▪ Canadian Food Inspection Agency acceptance.</li> </ul>

<b>Technical Data</b>	
<b>Packaging</b>	28.35 L (7.48 US gal.) unit
<b>Colour</b>	Clear
<b>Yield</b>	5 - 7 m <sup>2</sup> /L (203 - 285 ft <sup>2</sup> /US gal.) at 6 - 8 mils w.f.t.
<b>Shelf Life</b>	2 years in original, unopened packaging under proper storage conditions. Store dry between 5 - 32 °C (41 - 89 °F). Condition product to between 18 - 30 °C (65 - 86 °F) before use.
<b>Mix Ratio</b>	A:B= 2:1 by volume
<b>Properties at 23 °C (73 °F) and 50 % R.H.</b>	
<b>Solids Content</b>	
By volume	100 %
<b>Pot Life, 250 g (8.8 oz)</b>	30 min at 21 °C
<b>Drying Times</b>	
Touch dry	6 - 8 hours
Recoat time	8 - 12 hours
Overcoat time	12 - 48 hours
Foot traffic	24 hours
Full cure	7 days
<i>Drying times will vary according to air and substrate temperature and humidity.</i>	
<b>Compressive Strength ASTM C579</b>	
5 - 6 mm/minute	47.8 MPa (6931 psi)
<b>Tensile Strength ASTM C307</b>	
5 - 6 mm/minute	6.7 MPa (972 psi)
<b>Flexural Strength ASTM C580</b>	
22.9 cm (9 in) at 3.4 mm/min	11.1 MPa (1610 psi)
<b>Modulus of Elasticity in Flexion ASTM C580</b>	
22.9 cm (9 in) at 3.4 mm/min	4296 MPa (622 920 psi)
<b>Bond Strength ASTM D4541</b>	
On concrete	> 4.9 MPa (> 711 psi)
<b>Shore D Hardness ASTM D2240</b>	84
<b>Water Permeability and Absorption ASTM D570</b>	
24 h permeability	2.1 g/m <sup>2</sup>
24 h immersion at 23 °C	0.18 %
7 days immersion at 23 °C	0.30 %
2 h immersion in boiling water	1.74 %
<b>Colour stability 1-GP-71 (120.1) ASTM D2244</b>	
96 hours in « Fade-O-Meter »	
Coloured quartz	0.62
White quartz	5.54
<b>VOC</b>	1 g/L
<i>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.</i>	

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**HOW TO USE****Surface Preparation**

The concrete surface must be clean and sound. Remove dust, laitance, grease, oil, dirt, curing agents, impregnations, wax foreign matters coatings and any 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-9200.

**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-9200 should be uniform in colour and consistency. Mix only that quantity you can use within its pot life.

**Application**

**Primer:** Apply the Sikafloor® Duochem-9200 primer with a squeegee and back roll to achieve uniform coverage without pounding. **Note:** mortar must be placed onto wet primer, if the primer becomes tack-free, re-prime the substrate.

**Screed Mortar:** Maintain all control joints and expansion joints through the screed where movement is expected. Place Sikafloor® Duochem-9200 screed mortar onto the wet Sikafloor® Duochem-9200 primer and uniformly spread to desired thickness. Allow loose mortar to stand for a few minutes to permit entrapped air to escape. Using a non-marking stainless steel finishing trowel, uniformly compact and smooth the surface. Screed around drains, at elevation changes or terminations must be folded into square and keyed recesses to maintain a minimum of 3 - 6 mm (1/8 - 1/4 in) thickness. **Note:** do not feather edge.

**Grout Coat:** Allow mortar to cure sufficiently, to support foot traffic without damaging the surface.; then apply one or two grout coats, using Sikafloor® Duochem-9200 resin (A + B) to fill and seal the pores, without pounding. Allow grout coat to cure properly, sanding lightly to remove imperfections between coats when necessary. remove all sanding debris using an industrial vacuum. Second grout coat may not be necessary if aggregate mix is more resinous and /or has been well compacted by trowel. The grout coat should fill and seal the screed mortar and leave a thin film on the surface.

**Top coat:** Refer to Sikafloor® Quartzite® System Product Data Sheet.

**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® Duochem-9200 when used with Sikafloor® decorative floor systems, are best installed by experienced applicators. Consult Sika Canada Technical Sales for advice and recommendations.
- Minimum / Maximum substrate temperature 10 °C / 30 °C (50 °F / 86 °F)
- 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.
- Not suitable for use on exterior, slab on grade concrete substrate
- Protect from dampness, condensation and water contact during the initial 24 hours cure period.
- Surface may discolour in areas exposed to constant ultra violet 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

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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](http://www.sika.ca)

**SIKA CANADA INC.**

**Head Office**  
601, avenue Delmar  
Pointe-Claire, Quebec  
H9R 4A9

**Other locations**  
Toronto  
Edmonton  
Vancouver

**1-800-933-SIKA**  
**[www.sika.ca](http://www.sika.ca)**

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