



**PRODUCT DATA SHEET**

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FLUID-APPLIED FLOORING

# Sikafloor® Fastflor® CR

## SOLVENT-FREE, CHEMICAL-RESISTANT, FAST-CURE, EPOXY FLOOR COATING

<b>Description</b>	Sikafloor® Fastflor® CR is a two-component, solvent-free and low-VOC containing, epoxy binder and coating available in unlimited colours. Sikafloor® Fastflor® CR provides extremely high chemical and mechanical resistance within a smooth or broadcast floor finish.
<b>Where to Use</b>	<ul style="list-style-type: none"> <li>▪ Excellent protection for new or old concrete and properly prepared steel surfaces.</li> <li>▪ For areas requiring resistance to severe chemical attack and abrasion.</li> <li>▪ Suitable for use in direct exposure and secondary containment areas in manufacturing facilities, warehouses, laboratories, dairies, breweries, chemical plants, paper mills, food processing and pharmaceutical manufacturing (for specific chemical resistance refer to Sika's Chemical Resistance Guide).</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>▪ Environmentally friendly: low-VOC contents and low odour.</li> <li>▪ Easily applied material, usually in a 2 coat application.</li> <li>▪ Available in unlimited colour range with no minimum quantities required.</li> <li>▪ Versatile, offers either smooth or broadcast (slip resistant) finishes.</li> <li>▪ Fast curing: ideal for quick turnaround projects.</li> <li>▪ Provides dust-free surfaces.</li> <li>▪ Excellent chemical and wear resistance.</li> <li>▪ Easily cleaned and maintained.</li> <li>▪ Canadian Food Inspection Agency acceptance/USDA acceptance.</li> </ul>

**Technical Data**

<b>Packaging</b>	11 L (2.91 US gal.) unit										
<b>Colour</b>	Standard: RAL 7038 Agate Grey Custom colours available with no minimum quantities required.										
<b>Yield</b>	<p><b>Smooth Coating</b> (23 mils total thickness)</p> <table border="0"> <tr> <td>Prime coat (8 mils)</td> <td>5 m<sup>2</sup>/L (203 ft<sup>2</sup>/US gal.)</td> </tr> <tr> <td>Top coat (15 mils)</td> <td>2.6 m<sup>2</sup>/L (106 ft<sup>2</sup>/US gal.)</td> </tr> </table> <p><b>Broadcast Coating</b> (2 mm total thickness)</p> <table border="0"> <tr> <td>Prime coat (8 mils)</td> <td>5 m<sup>2</sup>/L (203 ft<sup>2</sup>/US gal.)</td> </tr> <tr> <td>Broadcast coat (35 mils)</td> <td>1.1 m<sup>2</sup>/L (45 ft<sup>2</sup>/US gal.)</td> </tr> </table> <p>Aggregate: Silica sand # 32 (spherical) 0.3 - 0.85 mm</p> <table border="0"> <tr> <td>Top coat (10 mils)</td> <td>4 m<sup>2</sup>/L (163 ft<sup>2</sup>/US gal.)</td> </tr> </table> <p><i>Actual coverage rates and material consumption will depend upon porosity and profile of substrates. Allowance must be also made for variation in film thickness or number of coats required to achieve opacity with light (i.e. white) or bright colours (i.e. reds and yellows) on dark substrates. Test sections are recommended to establish correct coverage.</i></p>	Prime coat (8 mils)	5 m <sup>2</sup> /L (203 ft <sup>2</sup> /US gal.)	Top coat (15 mils)	2.6 m <sup>2</sup> /L (106 ft <sup>2</sup> /US gal.)	Prime coat (8 mils)	5 m <sup>2</sup> /L (203 ft <sup>2</sup> /US gal.)	Broadcast coat (35 mils)	1.1 m <sup>2</sup> /L (45 ft <sup>2</sup> /US gal.)	Top coat (10 mils)	4 m <sup>2</sup> /L (163 ft <sup>2</sup> /US gal.)
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<b>Shelf Life</b>	2 years in original, unopened packaging. Store dry between 5 and 32 °C (41 and 89 °F).										
<b>Mix Ratio</b>	A:B = 2:1 by volume										
<b>Open Working Time</b>	20 min										
<b>Pot Life</b> (350 g)	30 to 35 min										
<b>Application Temperatures</b>	10 to 30 °C (50 to 86 °F)										
<b>Properties at 23 °C (73 °F) and 50 % R.H.</b>											
<b>Viscosity (A+B) ASTM D2393</b>	1400 cps										
<b>Curing Time</b>											
Recoat	5 hrs										
Foot traffic	8 hrs										
Vehicular traffic	16 hrs										
Full cure	5 days										
<b>Shore D Hardness ASTM D2240</b>	85										
<b>Tensile Strength ASTM D638</b>	45 MPa (6527 psi)										
<b>Elongation ASTM D638</b>	6.5 %										
<b>Abrasion Resistance ASTM D4060</b> (Taber Abrader, Wheel CS-17/1000 g (2.2 lb)/1000 cycles)	120 mg (0.0042 oz)										
<b>Bond Strength ASTM D4541</b>	2.7 MPa (392 psi) Concrete failure										
<b>VOC Content</b>	1.55 g/L										

*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.*

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

The surface must be clean, dry and sound. Remove dust, laitance, grease, oil, dirt, curing compounds, impregnations, waxes, foreign particles, coatings and disintegrated particles by any appropriate mechanical means, in order to achieve a profile equivalent to ICRI-CSP 3-4. Concrete compressive strength 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 Sikafloor® Fastflor® CR application.

**Mixing**

Pre-stir both components separately to ensure complete distribution of solids and uniform consistencies of each. Empty Component A into a suitably sized and clean mixing container and add a Component B. Where part mixing a unit, ensure that correctly measured parts of Components A and B are mixed in the correct ratio.  
Mix for three (3) minutes using a low-speed drill (300 - 450 rpm) to minimize entrapping air and an *Exomixer*® type mixing paddle (recommended model) suited to the volume of the mixing container. 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, Sikafloor® Fastflor® CR should be uniform in colour and consistency. Mix only that quantity you can use within its pot life.

**Application****Smooth Coating**

**Prime Coat:** Apply the prime coat onto the substrate using a brush, roller or squeegee, at a uniform coverage without ponding.

**Top Coat:** Once the prime coat is tack free, apply the wear coat using a squeegee or roller and back roll to achieve even coverage. If time between coats exceeds 48 hours at 22 °C (71 °F), abrade surface and wipe clean with a solvent dampened cloth.

**Broadcast Coating**

**Prime Coat:** Apply the prime coat onto the substrate using a brush, roller or squeegee, at a uniform coverage without ponding.

**Broadcast Coat:** Once the prime coat is tack free, apply the broadcast coat onto the substrate using a notched squeegee or trowel. Level out and back roll to achieve an even coverage. Broadcast the selected aggregate (sand size selected for texture) into the broadcast coat to rejection.

**Top Coat:** Once the broadcast coat has sufficiently cured to allow foot traffic, sweep-up and remove by vacuum any and all loose or un-bonded sand. Apply the top coat using a squeegee, followed by back rolling to provide a uniform texture and finish.

**Clean Up**

Clean all tools and equipment immediately after use with Sika® Epoxy Cleaner. Once hardened, the product can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.

**Limitations**

- 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®<sup>CA</sup> as a temporary moisture barrier beneath the Sikafloor® Fastflor® CR.
- 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.
- The influence of colour selection should be allowed for in material consumption/coverage. Light or bright colours may require higher wet film thicknesses or additional coats to achieve desired opacity. Consult Sika Canada for guidance at time of colour selection.
- Surface may discolour in areas exposed to ultraviolet light, use Sikafloor® Duochem-942 (Clear or Coloured) as a seal coat if required or contact Sika Canada prior to specification or application for advice.
- Do not hand-mix Sikafloor® materials; mechanical mix only.
- Do not dilute Sikafloor® Fastflor® CR with any solvents or its performance will be affected.

**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)

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