



PRODUCT DATA SHEET

Edition 11.2020/v1
CSC Master Format™ 09 67 23
RESINOUS FLOORING

Sikafloor®-156^{CA}

EPOXY PRIMER AND BINDER

Description	Sikafloor®-156 ^{CA} is a two-component, solvent-free, low-viscosity, high-strength, epoxy resin, used as an epoxy primer and binder for Sikafloor® Systems.
Where to Use	<ul style="list-style-type: none"> Primer and adhesion promoter for Sikafloor® epoxy, polyurethane and polyaspartic floors. Binder for epoxy mortar screeds. Bonding Sika® mortars to various substrates.
Advantages	<ul style="list-style-type: none"> Low viscosity ensures excellent penetration and adhesion. High mechanical resistance. User friendly mix ratio = 3:1 (parts by volume). Low VOC content, neutral odour. Conformity with LEED® v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations. Conformity with LEED® v4 EQc 2: Low-Emitting Materials. Meets the requirements of CFIA and USDA for use in food plants.

Technical Data

Packaging	10 L and 30 L (2.6 and 7.9 US gal.) units		
Colour	Clear amber		
Yield	4 m ² /L (160 ft ² /US gal.) (10 mils w.f.t.) (Optional: thicken with Sikafloor® Extender T or Silica flour)		
Shelf Life	2 years in original unopened packaging. Store dry at temperatures between 5 and 32 °C (41 and 89 °F). Condition product at temperatures between 18 and 30 °C (65 and 86 °F) before using.		
Mix Ratio	A:B = 3:1 by volume		
Properties at 23 °C (73 °F) and 50 % R.H.			
Specific Gravity ASTM D1475 kg/L (lb/US gal.)	A:	1.12 (9.34)	
	B:	1.01 (8.43)	
	A+B:	1.09 (9.07)	
Viscosity	A+B:	~ 260 cps	
Service Temperature (min./max.)	0 °C / 50 °C (32 °F / 122 °F)		
Pot Life, 250 g (8.8 oz)	~ 35 - 40 min		
Open Time on Substrate (min)	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)
	~ 70	~ 45	~ 40
Waiting Time Between Coats (h) (min./max.)	~ 24/96	~ 8/48	~ 5/24
Curing Time			
Foot traffic (hours)	~ 24	~ 12	~ 6
Light traffic (days)	~ 5	~ 3	~ 2
Normal traffic/Chem. exp. (days)	~ 10	~ 7	~ 5
Compressive Strength ASTM D695	~ 41 MPa (5946 psi)		
Tensile Strength ASTM D638	~ 36 MPa (5221 psi)		
% Elongation	~ 10.3 %		
Pull Off Strength ASTM D7234	> 1.7 MPa (246.5 psi) (substrate failure)		
Thermal Compatibility ASTM C884	Passes		
Hardness, Shore D ASTM D2240	~ 83		
Indentation MIL-PRF-24613	~ 7.14 %		
Impact Resistance ASTM D2794	~ 3.39 Joules (2.5 ft lb _i)		
Abrasion Resistance ASTM D4060 CS17/1000 cycles/1000 g (2.2 lb)	~ 0.15 g (0.0053 oz)		
Flammability ASTM D 635	~ 55 mm (2.17 in)		
Coefficient of Thermal Expansion ASTM D696	~ 1.27 x 10 ⁻⁴ mm/mm/°C (0.70 x 10 ⁻⁴ in/in/°F)		
Water Absorption ASTM C413	~ 0.3 %		
Heat Deflection Temperature ASTM D648	~ 37 °C (98.6 °F)		
VOC Content	~ 23.5 g/L		
Chemical Resistance	Consult Sika Canada		
<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>			

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 - 9. The compressive strength of the concrete substrate 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®-156 ^{CA} primer.
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Mixing	<p>Mix Ratio: Components A:B 3:1 by volume.</p> <p>For part mixing, i.e. when not mixing full units, each component must be pre-agitated separately to ensure product uniformity. Pre-stir Components A and B separately, making sure all solids, are evenly distributed and uniform consistencies are achieved within each individual Component. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin) or empty Component A into a suitably sized and clean pail and add Component B in the correct ratio. Blend the combined components thoroughly at low speed (300 - 450 rpm) for at least three (3) minutes using a drill fitted with an <i>Exomixer</i>[®] or <i>Jiffy</i> type paddle suited to the dimensions of the mixing container and keep the mixing paddle in the mix to minimize entrapped air. Take care not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. Note: Do not try to attend to unmixed material that may gather on the sides of the mixing container while mechanical or electrical parts are in motion. When completely mixed, Sikafloor[®]-156^{CA} should be uniform in appearance and consistency. Important: Mixing attempted at material and ambient temperatures below 18 °C (65 °F) will result in a decrease in product workability. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at actual field temperature.</p>
Application	Apply the primer to the prepared surface using a squeegee and back roll to provide uniform coverage. Avoid ponding.
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. Dispose of product in accordance with current applicable local, provincial and federal regulations.
Limitations	<ul style="list-style-type: none"> ▪ Sikafloor[®]-156^{CA} is best installed by skilled and experienced applicators. Consult Sika Canada for advice and recommendations. ▪ Prior to application, measure and confirm the following: substrate moisture content, ambient relative humidity ambient and surface temperature and dew point. During installation, confirm and record above values at least once every three (3) hours, or more frequently whenever conditions change (e.g. ambient temperature rise/fall, relative humidity increase/decrease, etc.). ▪ Moisture content of concrete substrate must be ≤ 4 % (pbw – part by weight) as measured with a Tramex[®] CME/CMExpert type concrete moisture meter on mechanically-prepared surface according to this product data sheet (preparation to ICRI / CSP 3 - 9). Do not apply to concrete substrate with moisture levels exceeding 4 % (pbw – part by weight) as measured with Tramex[®] CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate exceeds 4 % (pbw – part by weight) as measured with Tramex[®] CME/CMExpert type concrete moisture meter, use Sikafloor[®]-1610 or Sikafloor[®]-81 EpoCem^{®CA} on horizontal surfaces and Sikagard[®]-75 EpoCem^{®CA} on walls and overhead applications ▪ When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be ≤ 85 %. If values exceed 85 % according to ASTM F2170 use Sikafloor[®]-1610 or Sikafloor[®]-81 EpoCem^{®CA}. ASTM F2170 testing is not a substitute for measuring substrate moisture content with a Tramex[®] CME/CMExpert type concrete moisture meter as described above. ▪ Beware of condensation! The substrate must be at least 3 °C (5 °F) above the dew point to reduce the risk of condensation, which may lead to adhesion failure or “blushing” on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature. ▪ Product temperature: Precondition product for at least 24 hours at temperatures between 18 and 24 °C (65 to 75 °F). ▪ Ambient and substrate temperatures (Minimum / Maximum) : 10 °C / 30 °C (50 °F / 86 °F). ▪ Mixing and application attempted at material, ambient and/or substrate temperature conditions less than 18 °C (65 °F) will result in a decrease in product workability and slower cure rates. ▪ Do not hand mix Sikafloor[®] materials. Mechanically mix only. Pre-stir each component thoroughly and do not allow mixed material to stand and settle. Failure to pre-stir and keep product agitated will result in variation in gloss levels appearance and performance. ▪ Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika[®] warranty. ▪ Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. ▪ Ensure there is no vapour drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapour drive. ▪ Freshly applied material should be protected from dampness, condensation and water for at least 72 hours. ▪ Do not apply Sikafloor[®] to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikafloor[®] product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use. ▪ Do not apply to polymer modified cement mortars (PCC) that may expand when sealed with an impervious resin. ▪ Any aggregate used with Sikafloor[®] systems must be non-reactive and oven-dried. ▪ This product is not designed for negative side waterproofing. ▪ Typically not recommended for exterior slabs on grade where freeze/thaw conditions may exist. ▪ Direct-fired gas or kerosene heaters produce by-products that can have adverse effects on the curing primer. To avoid this occurrence, heaters must be exhausted to the exterior of the building to avoid defects such as amine blush, whitening, loss of adhesion or other surface deficiencies. ▪ Mechanical, chemical and physical properties will be fully achieved at full cure. ▪ Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects. ▪ Surface may discolour in areas exposed to constant ultra violet light.

**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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