



PRODUCT DATA SHEET

Sikafloor® Vertical Epoxy Primer

ADHESIVE PRIMER FOR VERTICAL COVING AND DETAILING MORTARS

PRODUCT DESCRIPTION

Sikafloor® Vertical Epoxy Primer is a 100 % solids, two-component, moisture tolerant, epoxy adhesive used as a primer for Sikafloor® cove and detailing mortars.

WHERE TO USE

Sikafloor® Vertical Epoxy Primer may only be used by experienced professionals.

- Sikafloor® Vertical Epoxy Primer is used as a tacky primer and adhesion promoter for the vertical application of Sikafloor® mortars.
- Primer for concrete substrates and most steel surfaces that have been properly prepared.

CHARACTERISTICS / ADVANTAGES

- Excellent 'tacky' grab properties provide true 'hang' characteristics for vertical mortars
- Suitable for application on new or existing cured concrete substrates

PRODUCT INFORMATION

CSC MasterFormat®

09 67 00 | FLUID-APPLIED FLOORING

Packaging

6 L (1.6 US gal) kit
(1 x 3 L Component A and 1 x 3 L Component B per carton)

Shelf Life

2 years in original unopened packaging.

Storage Conditions

Store dry between 10 and 25 °C (50 and 77 °F).

Density

~ 1.03 kg/L (8.6 lb/US gal.)

- Can be applied onto 7 to 10 day old concrete after adequate preparation and where substrate has tensile bond strength in excess of 1.5 MPa (218 psi)
- Maximum moisture content of concrete substrate < 6 % part by weight as determined with Tramex® CM/E meter
- Achieves bond strength in excess of the tensile strength of concrete
- Flexible bond line provides good performance under thermally induced stress
- User friendly mix ratio = 1:1 (parts by volume)
- Low VOC content, neutral odour

ENVIRONMENTAL INFORMATION

- Potential contribution for LEED® projects.

APPROVALS / CERTIFICATES

- Meets the requirements of CFIA and USDA for use in food plants.

Volatile organic compound (VOC) content < 20 g/L

Compressive Strength	~ 57.2 MPa (8300 psi)	(ASTM D695)
Tensile Strength	~ 45.5 MPa (6600 psi)	(ASTM D638)
Pull-Off Strength	~ 2.7 MPa (400 psi) concrete failure	(ASTM D7234)
Thermal Compatibility	Passes	(ASTM C884)
Mixing Ratio	A:B = 1:1 by volume	
Consumption	4-5 m ² /L (160-200 ft ² /US gal.) at 8-10 mil wet film thickness (w.f.t.) Coverage will vary depending on the porosity of the prepared substrate.	
Product Temperature	Condition product at temperatures between 18 and 24 °C (65 and 75 °F) before using.	
Ambient Air Temperature	Min. 5 °C (41 °F) Max. 30 °C (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.	
Relative Air Humidity	Maximum 85 % (during application and curing).	
Dew Point	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.	
Substrate Moisture Content	Moisture content of a concrete substrate must be < 6 % (pbw -part by weight) as measured with a Tramex® CME/CM Expert type concrete moisture meter.	
Pot Life	~ 20 minutes at 20 °C (68 °F)	(250 g (8.8 oz))
Curing Time	~ 1 hour at 20 °C (68 °F) at 10 mil w.f.t. (open time on substrate) ~ 12 hours at 20 °C (68 °F) at 10 mil w.f.t. (foot traffic)	
Applied Product Ready for Use	~ 5 days at 20 °C (68 °F) (full cure / chemical exposure)	

BASIS OF PRODUCT DATA

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.

Properties tested at 23 °C (73 °F) and 50 % R.H. unless stated otherwise.

LIMITATIONS

- Sikafloor® Vertical Epoxy Primer 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 a concrete substrate must be < 6 % (pbw -part by weight) as measured with a Tramex® CME/CM Expert type concrete moisture meter on mechanically-prepared surface according to this product data sheet (preparation to ICRI / CSP 3 - 6). Do not apply to concrete substrate with moisture levels exceeding 6 % (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate exceeds 6 % (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor®-81 EpoCem®CA on horizontal surfaces and Sikagard®-75 EpoCem®CA on walls and overhead applications.
- 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.

- 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.
- Do not apply to surfaces where moisture vapour can condense and freeze.
- Do not apply to polymer modified cement mortars (PCC) that may expand when sealed with an impervious resin.
- Do not apply to water-soaked, glistening-wet concrete substrates.
- Do not apply to un-reinforced sand cement screeds, asphaltic or bitumen substrates, glazed tile or non-porous brick, magnesite, copper, aluminium, soft wood or urethane amalgamations, elastomeric membranes, fibre reinforced polyester (FRP) composites.

- 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 & physical properties will be fully achieved at full cure.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

SURFACE PREPARATION

Surface Preparation

Concrete surfaces must be clean and sound. Remove all dust, dirt, existing paint films, efflorescence, laitance, form oils, hydraulic or fuel oils, brake fluid, grease, fungus, mildew, biological residues or any other contaminants which may prohibit primer penetration and subsequent mortar adhesion. Prepare the surface by any appropriate mechanical means, in order to achieve a profile equivalent to ICRI / CSP 3 - 6. The compressive strength of the concrete substrate should be at least 25 MPa (3625 psi) at 28 days with a minimum tensile strength of 1.5 MPa (218 psi) at the time of application. Repairs to cementitious substrates, filling of blowholes, levelling of irregularities, etc. should be carried out using an appropriate Sika® profiling mortar. Contact Sika Canada for recommendations.

MIXING

For part unit mixing, i.e. when not mixing full units, each component must be pre-agitated separately to ensure product uniformity. 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 hand mix Sikafloor® materials. Mechanically mix only. Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Mix only that quantity which can be used within its pot life at the actual field temperature.

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 Exomixer® or Jiffy 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. When completely mixed, Sikafloor® Vertical Epoxy Primer should be uniform in appearance and consistency.

APPLICATION

Apply by brush or roller to the required thickness over a properly prepared substrate. Apply the Sikafloor® PurCem® mortar or the Sikafloor® Epoxy Cove Mortar while the Sikafloor® Vertical Epoxy Primer is tacky, working "wet on wet". If primer becomes glossy and loses tackiness, remove surface contaminants then recoat with additional Sikafloor® Vertical Epoxy Primer and proceed.

CLEAN UP

Clean all tools and equipment with Sika® Epoxy Cleaner. Once hardened, product can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

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 in accordance with Sika's recommendations. 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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