



PRODUCT DATA SHEET

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FLUID-APPLIED FLOORING

Sikafloor® Vertical Epoxy Primer

ADHESIVE PRIMER FOR VERTICAL COVING AND DETAILING MORTARS

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	<ul style="list-style-type: none"> ▪ 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.
Advantages	<ul style="list-style-type: none"> ▪ Excellent ‘tacky’ grab properties provide true ‘hang’ characteristics for vertical mortars. ▪ Suitable for application on new or existing cured concrete substrates. ▪ 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). ▪ Achieves bond strength in excess of the tensile strength of concrete. ▪ Moisture tolerant; maximum moisture content of concrete substrate < 10%. ▪ Flexible bond line provides good performance under thermally induced stress. ▪ Easy to mix: 1:1 ratio. ▪ Low odour as a result of 100% solids content. ▪ CFIA acceptance for use in food plants in Canada.

Technical Data

Packaging	6 L (1.6 US gal) kit (1 x 3 L Component A and 1 x 3 L Component B per carton)	
Yield	Approx. 24 m ² (258 ft ²) per kit at 10 mils. (These figures do not allow for surface porosity, profile or wastage).	
Shelf Life	2 years in original unopened packaging. Store dry between 10 and 25 °C (50 and 77 °F).	
Mix Ratio (by volume)	A:B = 1:1	
Application Temperature (by volume)	5 °C (41 °F) min./30°C (86°F) max.	
Cure Time	Usable pot life,	10 min at 20 °C (68 °F)
	250 g (8.8 oz)	
	Initial overcoat time	30 min - 1 hr at 20 °C (68 °F)/10 mils
	Cure to foot traffic	8 - 12 hrs at 20 °C (68 °F)/3 mm (1/8 in)
	Cure to full use	24 - 48 hrs at 20 °C (68 °F)/3 mm (1/8 in)

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

Density	1.03 kg/L (8.6 lb/US gal.)
Tensile Strength	45.5 MPa (6600 psi)
Flexural Strength	110.3 MPa (16 000 psi)
Compressive Strength	57.2 MPa (8300 psi)
Bond Strength	2.7 MPa (400 psi) concrete failure
VOC Content	< 20 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.

HOW TO USE

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 Technical Sales for recommendations.

Mixing
Mixing will be affected by temperature; condition materials for use between 15 and 21 °C (60 and 70 °F). Pre-stir each Component, then proportion equal parts by volume of Component A and Component B into a clean pail. Mix thoroughly for three (3) minutes with low speed drill (300 - 450 rpm) and paddle until the blended liquid is of a uniform consistency and appearance. 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. Mix only the quantity that can be applied within its pot life.

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. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.
Limitations	<ul style="list-style-type: none"> ▪ Do not apply below 4 °C (40 °F) or above 30 °C (86 °F). ▪ Do not apply at a relative humidity above 85 %. ▪ 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. ▪ Do not apply to concrete if air or substrate temperature is within 3 °C (5 °F) of dew point. ▪ Protect substrate during application from condensation from pipes or any overhead leaks. ▪ Do not mix Sikafloor® materials by hand; mechanical mix only. ▪ Do not apply to cracked or unsound substrates. ▪ Do not use on exterior, on-grade substrates; for interior use only. ▪ Do not apply to surfaces where moisture vapour can condense and freeze.

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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