



PRODUCT DATA SHEET

Sika® Level-01 Primer CA

CONCRETE PRIMER AND SEALER FOR USE WITH Sika® Level UNDERLAYMENTS AND Sikafloor® Level OVERLAYMENTS



PRODUCT DESCRIPTION

Sika® Level-01 Primer CA is a one-component, water-dispersed, solvent-free, acrylic-based solution used to prime and seal floor surfaces prior to the application of Sika self-levelling underlayments and overlayments.

WHERE TO USE

As a primer/sealer for absorbent substrates including concrete and cement screeds. Developed by Sika's laboratories as an adhesion promoter and surface sealer beneath Sika® Level underlayments and Sikafloor® Level overlayments, enhancing the bond and integrity of the underlayment/overlayment when applied onto porous substrates.

CHARACTERISTICS / ADVANTAGES

- Ready to use, no dilution required
- Water-based and solvent-free; user and environmentally friendly

- Penetrates substrate to reduce outgassing and formation of pinholes in the underlayment/overlayment
- Prevents water loss from the underlayment/overlayment into the substrate
- Quick-drying and fast film formation to increase productivity
- Achieves excellent bond values throughout the recommended range of application temperatures
- Effectively seals concrete surfaces in a single, economic operation

ENVIRONMENTAL INFORMATION

- Conformity with LEED®v4 MR Credit (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations
- Conformity with LEED®v4 MR Credit (Option 1): Building Product Disclosure and Optimization - Material Ingredients
- Conformity with LEED®v4 MR Credit (Option 1): Building Product Disclosure and Optimization - Sourcing of Raw Materials

PRODUCT INFORMATION

CSC MasterFormat®	03 54 16 HYDRAULIC CEMENT UNDERLAYMENT
Packaging	3.78 L (1 US gal.) jug (4/carton) and 18.9 L (5 US gal.) pail
Shelf Life	2 years in original, unopened container.
Storage Conditions	Store dry at temperatures between +10 °C and +25 °C (50 °F and 77 °F). Protect from high heat and freezing; if frozen, discard material.
Appearance / Colour	Liquid / White
Density	1.02 kg/L approx.

Volatile organic compound (VOC) content < 10 g/L

Consumption	8–12 m ² /L (325–500 ft ² /US gal.) per coat approx. <i>Note: Coverage figures do not include allowance for surface profile and porosity or material waste. For extremely porous surfaces, an additional coat may be required.</i>
Ambient Air Temperature	Minimum: +13 °C (55 °F) / Maximum: +30 °C (86 °F)
Substrate Temperature	Minimum: +13 °C (55 °F) / Maximum: +30 °C (86 °F)
Waiting Time / Overcoating	Previous coats must be tack-free before applying additional coats.

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.

LIMITATIONS

- For interior use only.
- When using Sika® Level-01 Primer CA in ambient conditions where temperatures exceed +25 °C (77 °F), store product in a cool place prior to use.
- Do not apply to substrates at temperatures below +13°C (55 °F) as this will slow the drying and effectiveness of the primer.
- Moisture content of concrete substrate must be ≤ 5 % by mass (p.b.w. – 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 ICRI / CSP 3 - 4). If moisture content of concrete substrate exceeds 5 % by mass, contact Sika Canada.
- The substrate should be surface dry with relative humidity of surrounding air low enough to allow efficient drying of the primer.
- Ponding of the primer must be avoided; ensure even distribution by brush or roller to work the primer into the substrate.
- Low temperature or high humidity will extend the drying time and the waiting time before applying the underlayment/overlayment.
- Sika® Level-01 Primer CA does not form a moisture barrier. For proper moisture mitigation material, contact Sika Canada.

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

The substrate must be dry, clean and stable before priming and applying the underlayment/overlayment materials. Remove all existing treatments such as coatings, sealers, wax, latex compounds, impregnations and curing agents, together with all contaminants i.e. dirt, dust, laitance, grease, oils, and foreign matter, which could interfere with the penetration of a primer and the adhesion of an underlayment/overlayment. Prepare concrete and cement substrates by mechanical means, such as shotblasting, sandblasting, water-jetting, scarifying, diamond grinding or other appropriate methods, to achieve an open-textured, fine-gripping surface (ICRI / CSP 3 minimum). Weak concrete should be removed and surface defects such as blowholes and spalls fully exposed and repaired with a suitable Sika® mortar prior to priming and levelling. All cracks and holes should be similarly filled to prevent loss of coverage or seepage of the primer through to lower areas. Contact Sika Canada for recommendations. All loose, friable material, including preparation residue, must be completely removed using a vacuum utilizing a brush attachment before application of the Sika® Level-01 Primer CA. The compressive strength of the concrete substrate should be at least 20 MPa (> 2900 psi) at 28 days with a minimum tensile strength of 1.0 MPa (> 145 psi) at the time Sika® Level-01 Primer CA is applied. Moisture Vapour Emission Rates of the substrate should comply and meet the requirements of the proposed floor covering. Please consult the manufacturer of the final floor finish for advice.

Careful consideration should be given to the selection of the method of mechanical surface preparation and the timing of application of primer and underlayment. Immediately following mechanical preparation on some excessively porous substrates, outgassing will increase for a short period of time (approx. 48 hours) until an equilibrium in slab vapour pressure and the ambient environment is reached. Before overall installation begins, Sika Canada recommends the application of several small test patches to determine primer application requirements and acceptability of final product performance. In general, a one-coat application of the Sika® Level-01 Primer CA should be sufficient; however, allowance should be made for double priming on excessively porous substrates. Where multiple coats are required, do not apply excessive material.

APPLICATION

Ensure that both concrete/cement-based substrates and ambient temperatures are between +13 °C and +30 °C (55 °F and 86 °F) before commencing the application of Sika® Level-01 Primer CA. The stated application temperatures are to be achieved before priming and should be maintained for a period of at least three (3) days after installation of the underlayment /overlayment. Should colder conditions prevail, use indirect and vented heaters to achieve and maintain the application temperature required.

Before applying Sika® Level-01 Primer CA, thoroughly shake the container in which the material is supplied to agitate the contents, ensure all solids are distributed throughout the dispersion and a uniform consistency is achieved.

Apply Sika® Level-01 Primer CA by brush or roller (long nap roller for rougher surfaces), working the material into the prepared substrate. Typically, one single application is required; however, porous substrates may require two (2) or more coats of primer to effectively seal the surface. Apply at 8–12 m²/L (325–500 ft²/US gal.) per coat, depending upon the substrate, but ponding of the primer on the surface must be avoided and puddles must be removed. Where multiple applications are necessary to seal the surface, allow previous coats to become tack-free before applying further primer. When first applied, Sika® Level-01 Primer CA appears white; once dry, it is clear. This facilitates quality control in terms of complete coverage and clearly confirms when the underlayment/overlayment can be installed.

To ensure proper adhesion, apply underlayment within 24 hours of the application of the Sika® Level-01 Primer CA, but only once the primer is clear (without milky spots) and dry to the touch (typically after a minimum of 2 hours drying time under normal environmental conditions). Lower temperatures and/or humid conditions may extend the drying time between priming coats or before installation of the underlayment/overlayment.

CLEAN UP

Clean all tools and equipment after use with water. Once hardened, the product can only be removed manually or 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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Product Data Sheet

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