



PRODUCT DATA SHEET

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HYDRAULIC CEMENT UNDERLAYMENT

Sika® Level-01 Primer^{CA}

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

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® Level-125 ^{CA} underlayments and Sikafloor® Level-25 ^{CA} and Sikafloor® Level-50 ^{CA} overlays.																																					
Where to Use	As a primer/sealer for absorbent substrates including concrete and cement screeds. Particularly suitable as an adhesion promoter and surface sealer beneath Sika® Level-125 ^{CA} , Sikafloor® Level-25 ^{CA} and Sikafloor® Level-50 ^{CA} , enhancing the bond and integrity of the underlayment/overlayment when applied onto porous substrates.																																					
Advantages	<ul style="list-style-type: none"> ▪ Ready to use, no dilution required. ▪ Water-based and solvent-free; user and environmentally friendly. ▪ Penetrates substrate to reduce outgassing and formation of bubbles 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. 																																					
Technical Data	<table border="0"> <tr> <td>Packaging</td> <td colspan="2">3.78 L (1 US gal.) jug (4/carton) and 18.9 L (5 US gal.) pail</td> </tr> <tr> <td>Colour</td> <td colspan="2">White</td> </tr> <tr> <td>Yield</td> <td colspan="2">8 to 12 m²/L (325 to 500 ft²/US gal.) per coat approx. Coverage figures do not include allowance for surface profile and porosity or material waste. For extremely porous surfaces, an additional coat may be required.</td> </tr> <tr> <td>Shelf Life</td> <td colspan="2">2 years in original, unopened container. Store dry at temperature between 5 and 25 °C (41 and 77 °F). Protect from high heat and freezing; if frozen, discard material.</td> </tr> <tr> <td>Application Temperature (substrate and ambient)</td> <td>Minimum 10 °C (50 °F)</td> <td>Maximum 35 °C (95 °F)</td> </tr> <tr> <td colspan="3">Properties at 23 °C (73 °F) and 50 % R.H.</td> </tr> <tr> <td>Density</td> <td colspan="2">1.02 kg/L approx.</td> </tr> <tr> <td>Solids Content</td> <td colspan="2">23 ± 2 %</td> </tr> <tr> <td>Drying time</td> <td colspan="2">< 2 hours</td> </tr> <tr> <td>Recoat Time</td> <td colspan="2">Allow previous coats to become tack-free before applying additional coats.</td> </tr> <tr> <td>Bond Strength</td> <td colspan="2">> 1.5 MPa (> 217 psi) (substrate failure)</td> </tr> <tr> <td>VOC Content</td> <td colspan="2">< 10 g/L</td> </tr> </table> <p><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></p>		Packaging	3.78 L (1 US gal.) jug (4/carton) and 18.9 L (5 US gal.) pail		Colour	White		Yield	8 to 12 m ² /L (325 to 500 ft ² /US gal.) per coat approx. Coverage figures do not include allowance for surface profile and porosity or material waste. For extremely porous surfaces, an additional coat may be required.		Shelf Life	2 years in original, unopened container. Store dry at temperature between 5 and 25 °C (41 and 77 °F). Protect from high heat and freezing; if frozen, discard material.		Application Temperature (substrate and ambient)	Minimum 10 °C (50 °F)	Maximum 35 °C (95 °F)	Properties at 23 °C (73 °F) and 50 % R.H.			Density	1.02 kg/L approx.		Solids Content	23 ± 2 %		Drying time	< 2 hours		Recoat Time	Allow previous coats to become tack-free before applying additional coats.		Bond Strength	> 1.5 MPa (> 217 psi) (substrate failure)		VOC Content	< 10 g/L	
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HOW TO USE

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 will 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 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 10 and 35 °C (50 and 95 °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. Where temperatures exceed 30 °C (86 °F), refer to and follow ACI hot weather application and protection guidelines.

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 to 12 m²/L (325 to 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. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.

Limitations

- For interior use only.
- When using Sika® Level-01 Primer^{CA}, in ambient conditions of over 25 °C (77 °F), store product in a cool place prior to use.
- Do not apply to substrates at temperatures below 10 °C (50 °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.

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

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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Certified ISO 14001 (CERT-0102791)

