

## Sika® Level-01 Primer

Concrete primer and sealer for use with Sika® Level-125 and Sika® Level-315.

<b>Description</b>	Sika® Level-01 Primer is a one-part, water-dispersed and solvent-free, acrylic-based solution used to prime and seal floor surfaces prior to the application of Sika® Level-125 and Sika® Level-315 underlayment.
<b>Where to Use</b>	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 and Sika® Level-315, enhancing the bond and integrity of the underlayment when applied onto porous substrates.
<b>Advantages</b>	<ul style="list-style-type: none"><li>■ Ready to use, no dilution required.</li><li>■ Water-based and solvent-free.</li><li>■ Penetrates substrate to reduce outgassing and formation of bubbles in the underlayment.</li><li>■ Prevents water loss from the underlayment into the substrate.</li><li>■ Quick-drying and fast film formation to increase productivity.</li><li>■ Achieves excellent bond values throughout the recommended range of application temperatures.</li><li>■ Effectively seals concrete surfaces in a single, economic operation.</li></ul>
<b>Coverage</b>	Approximately 325 to 500 ft. <sup>2</sup> gal or 8 to 10 m <sup>2</sup> /ltr approximately. Coverage figures do not include allowance for surface profile and porosity or material waste.
<b>Packaging</b>	1 U.S. gal. jug

### Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

<b>Shelf Life</b>	2 years in original, unopened container. Protect from high heat and freezing; if frozen, discard.
<b>Storage Conditions</b>	Store dry at 40°-77°F (5°-25°C). Condition material to 65°-75°F (18°-24°C) before using.
<b>Specific Gravity</b>	approx. 1.02 kg/ltr.
<b>Solids Content</b>	23%
<b>Drying time</b>	<2 hours
<b>Recoat Time</b>	Allow previous coats to become tack-free before applying additional coats
<b>Bond Strength</b>	>217 psi (>1.5 MPa) (substrate failure)
<b>VOC (EPA method 24)</b>	< 10 g/L

Construction



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## How to Use

### Surface Preparation

The substrate must be dry, clean and sound before priming and applying the underlayment 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. Prepare concrete and cement substrates by mechanical means, such as shotblasting, sandblasting, waterjetting, scarifying, 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. Consult Sika Technical Service for recommendations.

All loose friable material, including preparation residue, must be completely removed using a vacuum before application of the Sika® Level-01 Primer. The compressive strength of the concrete substrate should be at least >3000 psi / 20.7 MPa at 28 days with a minimum tensile strength of >145 psi/ 1.0 MPa at the time Sika® Level-01 Primer is applied. Moisture vapor 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 recommendations. Careful consideration should be given to the selection of the method of mechanical surface preparation and the timing of the primer and the underlayment application. 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 vapor pressure and the ambient environment is reached. Before overall installation begins, Sika 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 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.

### Mixing

Before applying Sika® Level-01 Primer, 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.

### Application

Ensure that both concrete/cement based substrates and ambient temperatures are between (50°F)10°C - 95°F(35°C) before commencing the application of Sika® Level-01 Primer. The stated application temperatures are to be achieved before priming and should be maintained for a period of at least 3 days after installation of the underlayment. Should colder conditions prevail, make allowance for the use of indirect and vented heaters to achieve and maintain the application temperature required. Where temperatures exceed 86°F(30°C), refer to and follow ACI hot weather application and protection guidelines.

### Tooling & Finishing

Apply Sika® Level-01 Primer 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 or more coats of primer to effectively seal the surface. Ensure coverage is at most 325 to 500 ft<sup>2</sup>/US gal, 10 to 12 m<sup>2</sup>/ltr 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 additional primer. When first applied, Sika® Level Primer appears white; once dry, it is clear. This facilitates quality control in terms of complete coverage and clearly confirms when the underlay can be installed.

### Over Painting

To ensure proper adhesion, Sika® Level-125 and Sika® Level-315 underlayment is applied within 24 hours of the application of the Sika® Level-01 Primer, 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.

### Limitations

- For interior use only. Primer developed for Sika® Level-125 and Sika® Level-315.
- Condition material to 65-75°F (18-24°C) before using.
- Do not apply to substrates at temperatures below +(50°F)10°C as this will slow the drying and effectiveness of the primer.
- Do not apply where the relative humidity of the substrate exceeds 75% as this will limit the efficiency of the primer.
- 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.
- Sika® Level-01 Primer does not form a moisture barrier. For proper moisture mitigation, consult Sika Technical Services.



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# Construction

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