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Cuyahoga Falls
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Product Data Sheet
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Provisional
Sika Level-01 Primer

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Sika® Level-01 Primer

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

Description	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.
Where to Use	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.
Advantages	<ul style="list-style-type: none"> ■ Ready to use, no dilution required ■ Water-based and solvent-free ■ Penetrates substrate to reduce outgassing and formation of bubbles in the underlayment ■ Prevents water loss from the underlayment 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
Coverage	Approximately 325 to 500 sq.ft/gal or 8 to 10 m ² /ltr approximately. Coverage figures do not include allowance for surface profile and porosity or material waste.
Packaging	1 U.S. gal. jug

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, water-jetting, 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.

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

Shelf Life	2 years in original, unopened container. Protect from high heat and freezing; if frozen, discard.
Storage Conditions	Store dry at 40°-77°F (5°-25°C). Condition material to 65°-75°F (18°-24°C) before using.
Specific Gravity	approx. 1.02 kg/ltr.
Solids Content	23%
Drying time	<2 hours
Recoat Time	Allow previous coats to become tack-free before applying additional coats
Bond Strength	>217 psi (>1.5 MPa) (substrate failure)
VOC (EPA method 24)	0 g/L

Construction



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 ² /US gal, 10 to 12 m ² /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	<ul style="list-style-type: none"> ■ 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.
CAUTION	IRRITANT. May cause eye and skin irritation.
Handling & Storage	Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse.
First Aid	Eyes – Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation – Remove to fresh air. Ingestion – Do not induce vomiting. Dilute with water. Contact physician. In all cases, contact a physician immediately if symptoms persist.
Clean Up	Use personal protective equipment (chemical resistant gloves/ goggles/clothing). Without direct contact, sweep up spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable local, state, and federal regulations. Hardened material may have to be manually or mechanically removed.

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