



PRODUCT DATA SHEET

SikaLevel®-03 Primer Plus

Acrylic primer for use with Sika® Level products on porous substrates

PRODUCT DESCRIPTION

SikaLevel®-03 Primer Plus is a one-part, water-dispersed and solvent-free, acrylic-based solution used to prime floor surfaces prior to the application of Sika® Level products.

WHERE TO USE

- Concrete
- Engineered approved plywood underlayment

CHARACTERISTICS / ADVANTAGES

- Particularly suitable as an adhesion performance promoter
- Water-based and solvent-free
- Penetrates substrate to reduce the formation of pinholes in self-leveling underlayments
- Prevents water loss from the underlayment into the substrate
- 30 minutes drying time on concrete
- Low VOC and low odour
- For interior use only

PRODUCT INFORMATION

CSC MasterFormat®	03 54 00 CAST UNDERLAYMENT
Packaging	1 L (0.26 US gal.) 3.78 L (1 US gal.) 18.9 L (5 US gal.)
Shelf Life	12 months in original, unopened container. Protect from high heat and freezing; if frozen, discard.
Storage Conditions	Store dry at temperatures ranging between +5 °C and +25 °C (41 °F and 77 °F), if frozen, discard. Condition material at temperatures between +18 °C and +24 °C (65 °F and 75 °F) before using.
Appearance / Colour	Liquid / Mint Green
Density	1.01 g/mL
Solid content by weight	30 %
Volatile organic compound (VOC) content	< 5 g/L (EPA method 24)

Pull-Off Strength	Over properly prepared concrete	≥ 2 MPa (286 psi)		
	Over BC Fir CSA-0121 plywood	≥ 1 MPa (143 psi)		
Using direct pull test method				
Consumption	Coverage per 3.78 L (1 US gal.) jug			
	Undiluted	~46.5 m ² (500 ft ²)		
	Dilution - 1:3 (primer: water)	55.7 – 92.9 m ² (600 – 1 000 ft ²)		
<i>(Coverage figures do not include allowance for surface profile and porosity or material waste)</i>				
Ambient Air Temperature	+13 °C to +30 °C (55 °F to 86 °F)			
Relative Air Humidity	Maximum: 65 %			
Substrate Temperature	+13 °C to +30 °C (55 °F to 86 °F)			
Curing Time	Substrate	Dilution	Coat	Drying Time
	Concrete	1:3	1	30 min
	Extremely porous Concrete	1:3 then 1:1	2	30 min between coats
	Engineered approved plywood	Undiluted	1	1 h
To ensure proper adhesion, SikaLevel® products have to be applied within 24 hours of the application of the SikaLevel®-03 Primer Plus, but only once the primer is clear (without milky spots) and tack-free. Lower temperatures and/or humid conditions may extend the drying time between priming coats or before the installation of the underlayment.				

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

- Product does not form a moisture barrier
- For interior use only
- In all cases, substrate temperature must be 3 °C (5.5 °F) above the measured dew point
- Ponding of the primer must be avoided; ensure even distribution by broom to work the primer into the substrate
- Low temperature or high humidity will extend the drying time and the waiting time
- The diluted primer must be used within 24 hours of mixing

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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

- All substrates must be dry, stable, sound and free of all contaminants such as dust, grease, oil, paint, wax, dust, curing and sealing compounds or any contaminants or conditions that may interfere or prevent the penetration of the primer.
- Weak surfaces should be removed. All cracks and holes should be similarly filled to prevent seepage. Repair with an appropriate Sika® repair material prior to priming and leveling.
- The compressive strength of the concrete substrate should be at least 20 MPa (2 900 psi) at 28 days with a minimum tensile strength of 1.4 MPa (200 psi) at the time SikaLevel®-03 Primer Plus is applied.
- For installation in commercial or institutional areas. Prepare concrete substrates by mechanical means, such as shot blasting or diamond grinding or other appropriate methods, to achieve an open-textured, fine-gripping surface (equivalent to ICRI / CSP 3 - 4)
- Eliminate fine particles in the concrete pores using an industrial vacuum with a brush attachment.
- Immediately following mechanical preparation on

some excessively porous substrates, outgassing will increase for a short period of time (around 48 hours) until equilibrium in slab vapour pressure and the ambient environment is reached. Two (2) days should be allowed to the substrate after mechanical preparation before the application of the primer.

- Plywood underlayments (only for interior residential floors and in dry locations) must be a Group 1 exterior grade plywood, Select (SEL) or Select Tight Face (SEL TF) CANPLY classified exterior grade plywood conforming to CSA-0121 standard for Douglas Fir (DFP).
- Moisture vapour emission rates of the substrate should comply and meet the requirements of the proposed floor covering. Consult the manufacturer of the final floor finish for recommendations.
- Before overall installation begins, Sika recommends the application of several small test patches to determine primer application requirements and acceptability of final product performance.

MIXING

- Before applying SikaLevel®-03 Primer Plus, thoroughly shake the container in which the material is supplied in to agitate the contents
- On approved plywood surfaces: Apply SikaLevel®-03 Primer Plus undiluted. (No water addition).
- On absorbent or mechanically-profiled concrete surfaces: Dilute one (1) part of SikaLevel®-03 Primer Plus with three (3) parts of potable water (water temperature: +21 °C (70 °F), approx.) into a suitable-sized, clean mixing container. Mix for one (1) minute with a low-speed drill (300 rpm) and a paint mixing paddle.

APPLICATION

- For residential applications, the product is best applied with a paint roller. For larger scale applications, such as in institutional or commercial projects, SikaLevel®-03 Primer Plus must be applied with a push broom, working the diluted SikaLevel®-03 Primer Plus onto the surface. Brush off puddles and excess primer. Sika does not recommend the use of spray equipment.
- Over engineered approved plywood, apply the undiluted SikaLevel®-03 Primer Plus evenly using a 10 mm (3/8") nap roller.
- When first applied, SikaLevel®-03 Primer Plus appears light green; once dry, it is clear. This facilitates quality control in terms of complete coverage and clearly confirms when the self-levelling underlayment can be

installed.

- Where temperatures exceed +30 °C (86 °F), refer to and follow ACI hot weather application and protection guidelines.

CLEAN UP

Clean application tools with water immediately after use. Once hardened, the product can only be removed 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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