

PRODUCT DATA SHEET

SikaLevel[®]-110 SL

(formerly MasterTop[®] 110SL)

SELF-LEVELING CEMENTITIOUS FLOOR UNDERLAYMENT

PRODUCT DESCRIPTION

SikaLevel[®]-110 SL is a self-leveling poured-in-place cementitious floor underlayment for interior surfaces.

USES

- Interior
- Under carpeting, tile, linoleum, and hardwood floors
- For leveling rough or rain-damaged concrete floors
- Commercial structures, such as schools, office complexes, hospitals, and multi-unit residential structures

Substrates

- Concrete

CHARACTERISTICS / ADVANTAGES

- High flow consistency that self-levels to a smooth finish
- High early strength allows for rapid installation of floor finish
- Highly fluid, pumpable, or pourable for fast installation times
- Extended working time
- Compatible with most carpet and tile adhesives
- Portland cement based for greater stability than gypsum-based products under varying environmental conditions
- Only requires the addition of potable water
- Shrinkage compensated to minimize cracking and spalling

PRODUCT INFORMATION

Chemical Base	SikaLevel [®] -110 SL consists of cement, fine aggregate, fillers, and additives.
Packaging	50 lb (22.6 kg) polyethylene-lined bags
Shelf Life	1 year when properly stored
Storage Conditions	Store in unopened containers in a cool, clean, dry area
Density	120–125 lb/ft ³ (1,922–2,002 kg/m ³)

TECHNICAL INFORMATION

Compressive Strength	1 day	2,200 psi (15.2 MPa)	(ASTM C 109)
	7 day	3,600 psi (24.8 MPa)	
	28 day	4,400 psi (27.6 MPa)	
(Mix water: 5.25 qts/50 lb bag)			

APPLICATION INFORMATION

Coverage	<ul style="list-style-type: none"> ▪ 0.46 ft³ per 50 lbs (0.013 m³/23 kg) ▪ 45 ft² per 50 lb (4 m² per 23 kg) bag at 1/8" (3 mm) thickness (neat) Mortar: 0.64–0.69 ft ³ per 50 lbs (0.018–0.02 m ³ per 23 kg) when extended with 25–50 lbs (11–23 kg) of 1/8" (3 mm) course-graded, washed sand	
Thinner	Working Time 30 min at 70° F (21° C)	
Set Time	2 hrs	(ASTM C 266)
Final set time	3 hrs	(ASTM C 266)

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

NOTES ON INSTALLATION

- Do not apply SikaLevel®-110 SL over wood.
- Do not apply indoors where exposed to standing water.
- Do not use more than the recommended amount of water.
- Protect from moisture until the surface is covered with tile, carpet, or other flooring materials.
- This is a cement-based product. Do not install SikaLevel®-110 SL if the base slab temperature is below 40° F (4° C). In warm weather, use cool water for mixing; proceed quickly with application and take adequate measures to protect SikaLevel®-110 SL from exposure to direct, strong sunlight and wind.
- Conduct a test application to become familiar with product characteristics.
- For thicknesses over 1/2" (13 mm), add 25–50 lbs (11.3–22.7 kg) of washed, coarse-graded 1/8" (3 mm) top-size sand per 50 lb (22.7 kg) bag of SikaLevel®-110 SL.
- When extending SikaLevel®-110 SL, follow the given mixing instructions and then add the prescribed

amount of sand. Then remix to achieve a homogeneous mixture.

- If extending the material with sand for thicknesses over 1/2", the self-leveling characteristics will be affected. Consider the use of a final capping layer of neat material to achieve a smooth, level finish. Contact Sika Technical Service for additional details.
- If SikaLevel®-110 SL begins to set before placement, dispose of it immediately. Do not attempt to retemper SikaLevel®-110 SL.
- Use polyethylene or tarps to protect the set SikaLevel®-110 SL from rain, snow, water, and other forms of moisture.
- Make certain the most current versions of the product data sheet and SDS are being used.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.

SURFACE PREPARATION

1. The substrate must be clean, sound, and fully cured (28 days). Follow ICRI Guideline no. 310.2 with a CSP of 3–5 for surface preparation.
2. All floors to be covered must be solid and have a rigid base.
3. Repair all deep or wide non-moving cracks with compatible repair products 24 hours before installation.
4. Floors must be thoroughly dry before application of SikaLevel®-110 SL. Before proceeding, determine the moisture content of the floor using the Polyethylene sheet test: Tape a 4 ft² (0.5 m²) sheet of polyethylene or other clear plastic film to the slab surface according to ASTM D 4263. If no moisture accumulates on the underside of the plastic film after a 24-hour period, the slab is dry enough for coating. If moisture collects under the plastic film, repeat the test until it is no longer visible.
5. To avoid reflective cracking in toppings, always cut or form joints directly above those in the base slab.

SURFACE PREPARATION

Priming with Sikafloor® P 200

1. Dilute Sikafloor® P 200 with water at a 1 to 1 ratio and apply to the properly prepared substrate using a push broom. One gallon (3.6 L) of diluted Sikafloor® P 200 will cover approximately 350–400 ft² (32–37 m²). Apply a thin film of mixed Sikafloor® P 200 to avoid puddling.
2. Allow Sikafloor® P 200 to dry completely to a blue film (3–4 hours at 70° F [21° C] and 50% relative humidity). Because SikaLevel®-110 SL will soften when in contact with the wet underlayment, the primed surface may be left for up to 12 hours without repriming. **IMPORTANT:** Sikafloor® P 200 must be dry before application of SikaLevel®-110 SL. Extremely porous concrete may require 2 coats of primer. The surface must remain clean and free of any debris. If the area becomes dirty or contaminated, the surface must be cleaned and reprimed.

MIXING

1. For best results, mix with a Jiffler (PS-2) ICRI 320.5 drill mixing paddle no. 1 or a similar mixer attached to a heavy-duty electric drill (minimum 650 rpm).
2. Use approximately 5 to 5 1/2 quarts (5 L) of water per 50 lbs (23 kg) of SikaLevel®-110 SL. Gradually add the powder to the water and mix for 2–3 minutes to ensure a uniform, lump-free, smooth consistency.
3. Self-leveling working time is approximately 30 minutes at 68° F (20° C). Increased temperatures will significantly reduce working times.
4. Do not overwater or retemper.

APPLICATION

1. Pour the product over the prepared substrate or pump through suitable equipment to the desired thickness, not less than 1/8" (3 mm). If the product is not extended, avoid depths greater than 1/2" (13 mm). For hard-to-reach areas and touch-ups, use an epoxy spreader, porcupine roller, or a gauge rake.
2. SikaLevel®-110 SL will seek its own level in approximately 15 minutes at 70° F (21° C).

CURING TREATMENT

No special curing is required.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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