

PRODUCT DATA SHEET

Sika® Level SkimCoat

Fast setting, cement based smoothing and finishing compound

PRODUCT DESCRIPTION

Sika® Level SkimCoat is a one-component, easy to use and fast drying, cementitious skim mortar ideal for the repair or reprofiling of concrete, approved wood subfloors, and correctly prepared ceramic or quarry tiles before the installation of Sika® Level products or final floor coverings. Can be installed as a true featheredge as well as filling voids and leveling defects up to 1/2" (13 mm) in depth.

USES

- Used to reprofile substrates or subfloor surfaces from feather edge to 1/2" (13 mm) prior to applying Sika® Level products or floor finishes
- Repair minor defects, holes, cracks and pre-fill non-moving joints and seams in concrete and wood substrates
- Suitable for use with radiant heating systems

PRODUCT INFORMATION

Packaging	10 lb (4.5 kg) bag Pack of 4 bags
Appearance / Color	Gray powder
Shelf Life	12 months from date of production if stored properly in original, un-opened and undamaged sealed packaging
Storage Conditions	Store dry at 41°–86 °F (5°–30 °C) Protect from moisture. If damp, discard material

CHARACTERISTICS / ADVANTAGES

- Easy to prepare and quick to apply
- Repairs new and renovate old floors
- Good adhesion to substrates, subfloors and stable adhesive residue
- Rapid setting; receives primers, levelers, adhesives and coverings without delay
- Excellent standard of finish can be achieved to allow direct application of coverings
- Unlimited MVER (Moisture Vapor Emission Rate)

APPROVALS / STANDARDS

LEED V4.1 California Department of Public Health (CDPH) Standard Method v1.2: Private Office, School Classroom, and Residential

TECHNICAL INFORMATION

Compressive Strength	28 days	3,700 psi (25 MPa)	(ASTM C-109) 73 °F (23 °C) 50 % R.H.
Flexural Strength	28 days	1,300 psi (9 MPa)	(ASTM C-293) 73 °F (23 °C) 50 % R.H.

APPLICATION INFORMATION

Mixing Ratio	2 qts (1.9 L) of water per bag		
Coverage	35 ft² at 1/8” depth (3.2 m² at 3 mm) (Coverage figures do not include allowance for surface profile and porosity or material waste)		
Layer Thickness	Min.	Max.*	
	Feather edge	1/2” (13 mm)	
	* Higher thicknesses possible in small and localized area (birdbath, etc.)		
Product Temperature	65–75 °F (18–24 °C)		
Ambient Air Temperature	50–86 °F (10–30 °C) Where temperatures exceed 86 °F (30 °C), refer to and follow ACI hot weather application and protection guidelines.		
Relative Air Humidity	< 75%		
Substrate Temperature	50–86 °F (10–30 °C)		
Pot Life	~ 10–20 minutes The temperature will affect the pot life: ▪ Above 73 °F (23 °C) will reduce the pot life and the working time. ▪ Below 73 °F (23 °C) will extend the pot life and the working time.		
Waiting / Recoat Times	Feather edge	20 minutes	
	Polyurthane adhesives	> 16 hours	
Set Time	20 - 30 minutes		(ASTM C-266)
Final set time	30 - 60 minutes		(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.

LIMITATIONS

- For interior use only. Not suitable for exposed repairs or resurfacing.
- Do not exceed the recommended water dosage and use clean potable water.
- Do not apply onto dimensionally unstable substrates.
- Do not use on presswood, flakeboard, metallic or similar substrates and always comply with the final floor manufacturer's recommendations or instructions as to substrate or subfloor standards.
- Not suitable for use on water soluble adhesive residues or those which suffer from migration/bleeding.
- Do not expose to adverse drying conditions while curing. Protect from other trades, traffic, dust, dirt, high ambient temperatures and direct sunlight until final floor covering is completely dry.
- Sika® Level SkimCoat must be covered with an underlayment or final floor covering.
- Not suitable for applications where hydrostatic pressure is present.
- When used between non-porous substrate and nonbreathable floor covering using water bond adhesives, follow industry and manufactures guidelines for minimum thickness (typically 1/8", 3.2 mm) and flash times for adhesives.

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

SURFACE PREPARATION

- All substrates must be dry, stable, sound and free of all contaminants such as grease, oil, paint, wax, dust, curing and sealing compounds that will interfere with the bond of Sika® Level SkimCoat.
- Careful consideration should be given to the selection of the method of mechanical surface preparation.
- Immediately following mechanical preparation on some excessively porous substrates, outgassing will increase for a short period of time (approx. 48 hours) until equilibrium in slab vapor pressure and the ambient environment is reached.
- Concrete & Cement Substrates: Prepare concrete, cement and dense substrates, including ceramic, quarry and vinyl tiles by mechanical means, such as shot blasting, sandblasting, water-jetting, scarifying, or other appropriate methods, to achieve a matt, glaze free open textured surface. Weak surfaces should be removed, vacuum thoroughly. The compressive strength of the concrete substrate should be at least 2,900 psi (20 MPa) at 28 days with a minimum tensile strength of 200 psi (1.4 MPa).
- Gypsum Surfaces: The compressive strength of a gypsum-based substrate should be at least 2,000 psi (13.8 MPa). It must be fully cured and totally dry.
- Cutback Adhesive: Old water-soluble adhesives and old water-resistant adhesives should be removed. Old cutback can contain asbestos which is dangerous for the health so do not grind, sand or blast. Refer to the Resilient Floor Covering Institute's publication "recommended work practice for removal of resilient floor coverings" for instruction.
- OSB/Plywood Subfloors: They must consist of exterior-grade wood which complies with Group 1 CC Type, is engineer approved and either recommended or warranted by the wood manufacturer or final floor covering supplier. The OSB/plywood must then be suitably secured, bonded and prepared to a contaminant free and sound condition. Ensure wooden floors are well ventilated from below. Moisture Vapor Emission Rates (MVER) of the substrate should comply and meet the requirements of the proposed floor

covering. Test substrates for moisture content and consult the manufacturer of the final floor finish for advice.

- All moving joints and moving cracks must be honored up through the floor preparation and floor covering installation, finishing with an appropriate Sika flexible sealing compound. Dormant hairline cracks can be covered with Sika MB, Sika MB Redline, or Sika MB EZ Rapid. Dormant joints and dormant cracks greater than a hairline that will not be honored must be pre-filled in strict accordance with the installation instructions provided by the Sika Technical Service Department. Moving hairline cracks can be covered with an appropriate Sika flexible adhesives/sealants. Once the dormant cracks and dormant joints have been properly filled, broadcast sand to refusal, and allow these areas to cure thoroughly. Remove all excess sand before proceeding with the SikaLevel® installation.

PRIMING

- Not required when applied on top of concretes, cement substrates, and some non-porous substrates like ceramic tiles and terrazo
- On gypsum based subfloors, 1 coat of Sika® Level-01 Primer Plus is mandatory.
- Well prepared non-absorbent, smooth, sound substrates such epoxies (Sika® MB, Sika® MB Redline, or Sika® MB EZ Rapid) or concrete treated with silicate products must be primed with Sika® Level-02 EZ Primer.
- Refer to the respective PDS for complete and detailed instructions on the usage of each Primer.

MIXING

- As with all prebagged cement products, some settlement may have occurred during storage and transportation and dry blending of the material is recommended.
- Pour 2 quarts (1.9 L) of potable water (~ 70 °F, 21.1 °C) into a suitably sized and clean mixing container, using a calibrated measuring jug, or similar, to ensure strict control of the water content (do not over-water). If available water is not at 70 °F (21.1 °C), then consideration should be given to cooling/heating the water. Add Sika® Level SkimCoatto the water, while slowly mixing, adding the complete contents of the 10 lb. (4.5 kg) bag.
- Mixing with a high-speed drill (> 600 rpm) and a mortar/grout mixing paddle to blend water and powder for 2–3 minutes, continue mixing until a lump-free uniform mix has been produced.
- Smaller volumes can also be mixed by hand for 2–3 minutes with a ratio of 3:1 part water. Mix until a uniform, lump free and smooth consistency is achieved.
- Avoid entrapment of air and excessive mixing as this will impact performance. Do not mix more mortar than can be used within the stated pot life and working

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time, taking into consideration ambient temperatures.

APPLICATION

- Using a flat edge steel trowel, apply Sika® Level SkimCoat immediately following mixing.
- Ensure that the compound is tightly trowelled into all defects, seams, and non-moving joints or across roughened surfaces as required.
- Where defects, details or roughened surfaces require repair or reprofiling to a depth greater than 1/2" (13 mm), use the appropriate Sika® Level SkimCoat Level products.

OTHER RESTRICTIONS

See Legal Disclaimer.

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.

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