



# PRODUCT DATA SHEET

## SikaLevel®-050 Slope Rapid

Rapid Setting, Polymer Modified, Cement-based Skim-Coat and Ramping Compound

### PRODUCT DESCRIPTION

SikaLevel-050 Slope Rapid is a quick-setting polymer modified portland cement based skim coating and ramping compound for the repairing and smoothing of interior concrete and plywood floor substrates. SikaLevel-050 Slope Rapid will fill voids, holes, cracks, and plywood seams from a feather edge to 2" thick.

### USES

- Smooths and finishes substrates prior to the installation of resilient, carpet, ceramic tile and stone tiles
- Skim coats properly prepared well bonded cutback adhesives and existing ceramic tile installations
- Fills voids, holes, cracks, and plywood seams from a feather edge to 2" thick

### PRODUCT INFORMATION

<b>Chemical Base</b>	Portland cement, selected aggregates, water retention additives, redispersible polymer		
<b>Packaging</b>	25 lb. (11.34 kg.) bag		
<b>Appearance / Color</b>	Gray powder		
<b>Shelf Life</b>	12 months from date of production when stored in original, sealed package		
<b>Storage Conditions</b>	Store in undamaged, original, sealed package, in dry conditions at 73° F (23° C)		
<b>Compressive Strength</b>	28 days	4,500 psi (31 MPa)	(ASTM C-109) 73 °F (23 °C) 50 % R.H.
<b>Flexural Strength</b>	28 days	1,250 psi (8.6 MPa)	(ASTM C-293) 73 °F (23 °C) 50 % R.H.

### CHARACTERISTICS / ADVANTAGES

- Moisture Resistant
- No MVER Limitations
- Featheredge to 2" Fills
- Embossed Floor Leveler
- Initial Set in 30 Minutes
- Interior and Exterior Applications

### APPROVALS / STANDARDS

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

<b>Mixing Ratio</b>	2.1 - 2.4 quarts (2 - 2.3 liters) of clean potable water per bag Use lower water ratio for a thicker and buildable consistency, use higher water ratio for a thinner and more screedable consistency.	
<b>Coverage</b>	35 ft <sup>2</sup> at 1/8" depth (3.2 m <sup>2</sup> at 3 mm) (Coverage figures do not include allowance for surface profile and porosity or material waste)	
<b>Layer Thickness</b>	<b>Min</b> 1/16" (1.6 mm)	<b>Max</b> 2" (50.8 mm)
<b>Product Temperature</b>	65–75 °F (18–24 °C)	
<b>Ambient Air Temperature</b>	50–86 °F (10–30 °C) Where temperatures exceed 86 °F (30 °C), refer to and follow ACI hot weather application and protection guidelines.	
<b>Relative Air Humidity</b>	< 75%	
<b>Substrate Temperature</b>	50–86 °F (10–30 °C)	
<b>Pot Life</b>	10 - 15 minutes Temperature will affect pot life: <ul style="list-style-type: none"> <li>• Above 68 °F (20 °C) will reduce the pot life and the working time</li> <li>• Below 68 °F (20 °C) will extend the pot life and the working time</li> </ul>	
<b>Waiting / Recoat Times</b>	Feather edge Polyurthane adhesives	20 minutes > 16 hours
<b>Thinner</b>	20 - 30 minutes	(ASTM C-266)
<b>Final set time</b>	30 - 60 minutes	

## 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.

## USES

- Do not use SikaLevel-050 Slope Rapid below 40° F (4° C) or above 95° F (35° C).
- Use caution; do not allow mortar to freeze for the first 72 hours.
- Do not use for leveling large areas.
- For use of SikaLevel-050 Slope Rapid over additional substrates or situations not mentioned in these instructions, contact Sika Corporation's Technical Services department.

## LIMITATIONS

- 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
- SikaLevel®-050 Slope 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 information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety related data

# 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 SikaLevel®-050 Slope Rapid.
- 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 or Sika® MB Redline) 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

Add approximately 2.1-2.4 quarts (2-2.3 l.) of cool potable water for every 25 lbs. (11.34 kg.) of powder in a clean mixing container. Use lower water ratio for a thicker and buildable consistency, use higher water ratio for a thinner and more screedable consistency. Using a low speed mixer (300 RPM or less) add the powder to the water and mix to a lump free consistency. Avoid air entrapment and prolonged mixing which will shorten pot life. Do not over water. Mix only enough SikaLevel-050 Slope Rapid that can be used in 20 minutes.

## APPLICATION

Apply the mixed SikaLevel-050 Slope Rapid immediately by using a flat edged trowel to force the initial coat into the substrate. Finish the mixture to the desired thickness and smoothness. Avoid excessive heat or drafty conditions during curing period. Do not be over trowel SikaLevel-050 Slope Rapid. Mist water on the trowel to make the finishing of the SikaLevel-050 Slope Rapid easier. Discard material if it becomes too stiff to work. Drying time is 1/2 to 1 hour depending on ambient temperature and thickness. Any ridges or unevenness left in the patch can be scraped smooth with the clean flat edge of a trowel or sanded after a hard set.

## CLEANING OF TOOLS

Only water is required to remove any uncured mortar from tools, equipment and hands.

## 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](http://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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