

## Sika® Level Rapid Patch

Fast-setting cementitious patch for use with Sika® Level products and general floor coverings to repair or reprofile old, damaged or uneven floors.

<b>Description</b>	Sika® Level Rapid Patch is a one-component, polymer modified, easy to use and fast drying cementitious patching mortar ideal for the repair or re-profiling of concrete, approved wood subfloors and correctly prepared ceramic or quarry tiles before the installation of Sika® Level underlayments or final floor coverings. Easily applied and with both high adhesion values and fine finishing qualities it can be used fill and level defects from feather edge up to 1/2" (3 mm) in depth.
<b>Where to Use</b>	<ul style="list-style-type: none"><li>■ Used to repair minor defects, holes and cracks in concrete and wood subfloors before installing underlayments or final covering</li><li>■ To pre-fill non-moving joints and seams in concrete and wooden substrates</li><li>■ Used to re-profile rough substrates or subfloor surfaces from feather edge to 1/2" (13 mm) prior to applying levelers or floor finishes</li><li>■ Used as a parge coat to fill bug holes and surface voids creating a contiguous surface</li></ul>
<b>Advantages</b>	<ul style="list-style-type: none"><li>■ Easy to prepare and quick to apply.</li><li>■ Excellent high build properties</li><li>■ Zero VOC content</li><li>■ Repairs new and renovate old floors.</li><li>■ Good adhesion to substrates, subfloors and stable adhesive residue.</li><li>■ Rapid setting; receives primers, levelers, adhesives and coverings without delay.</li><li>■ Excellent standard of finish can be achieved to allow direct application of coverings.</li></ul>
<b>Coverage</b>	28 sq.ft. at 1/8" depth per 25 lb. bag (2.6 m <sup>2</sup> at 3 mm) (Coverage figures do not include allowance for surface profile and porosity or material waste)
<b>Cure Mechanism</b>	Polymer modified rapid hardening cement
<b>Packaging</b>	25 lb. (11.3 kg.) bags.

### Typical Data (Material and curing conditions @ 70°F (22°C) and 65% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

<b>Shelf Life</b>	1 year from date of production if stored properly in original, un-opened and undamaged sealed packaging.
<b>Storage Conditions</b>	Store dry at 41°-90°F (5°-32°C). Condition material to 65°-75°F (18°-24°C) before using. Protect from moisture. If damp, discard material.
<b>Color</b>	Gray
<b>Mixing Ratio</b>	4 quarts (3.75 L) of water per 25 lb. (11.3 kg) bag
<b>Application Temperature</b>	Substrate and ambient room temperatures must be above 50°F (10°C) and below 86°F (10°C - 30°C).
<b>Application Thickness</b>	Feather edge up to 1/2" (13 mm)
<b>Working Time</b>	Approx. 10 minutes
<b>Setting Times (ASTM C191)</b>	Initial Set - 20 to 30 minutes Final Set - 30 to 45 minutes
<b>Ready for covering:</b>	60 to 90 minutes
<b>Compressive Strength at 28 days (ASTM C109):</b>	3,000 psi (21 MPa) at 28 days
<b>VOC (EPA METHOD 24)</b>	0 g/l

Construction



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## How to Use

### 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 penetration of Sika® Level Rapid Patch.
- Careful consideration should be given to the selection of the method of mechanical surface preparation. Immediately following mechanical preparation on some excessively porous substrates, out-gassing will increase for a short period of time (approx. 48 hours) until equilibrium in slab vapor pressure and the ambient environment is reached.
- 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).
- Before overall installation begins, Consult Sika® Corporation's Technical Service Department for recommendations.

### Priming

- Priming is not required when Sika® Level Rapid Patch is applied on top of concretes, cement substrates, and some non-porous substrates like ceramic tiles and terrazo
- On gypsum based subfloors, 2 coats of Sika® Level-01 Primer Plus are mandatory.
- Well prepared non-absorbent, smooth, sound substrates such epoxies (Sika® MB or Sika® MB Redline) or concrete treated with silicate products must be primer with Sika® Level-02 EZ Primer before the application of Sika® Level Rapid Patch.
- Refer to the respective PDS for complete and detailed instructions on the usage of each Primer

### Mixing

- Pour up to 4 quarts of potable water (approx 70°F) 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 this temperature, then consideration should be given to cooling/heating the water.
- As with all pre-bagged cement products, some settlement may have occurred during storage and transportation and dry blending of the material is recommended.
- Add Sika® Level Rapid Patch to the water, while slowly mixing, adding the complete contents of the 25 lb. bag.
- For part mixes, use up to 3 parts Sika® Level Rapid Patch powder with up to 1 part water by volume. For a creamier mix, use less water.
- Mixing with a low speed electric drill (300 - 450 rpm) and a mortar /grout style mixing paddle to blend water and powder for approximately 3 minutes, continue mixing until a lump-free uniform mix has been produced.
- Do not over-mix or allow the paddle to rise above the level of material as this will introduce and entrap air into the mix, potentially shortening the working life or causing pin-holing.
- Do not mix more mortar than can be used within the stated pot life and working time, taking into consideration ambient temperatures.

### Application

- The stated ambient and substrate application temperatures are to be achieved before works are started. Where temperatures exceed 86°F (30°C), refer to and follow ACI hot weather application and protection guidelines.
- Using a flat-edge steel trowel, apply Sika® Level Rapid Patch 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 underlayment.
- Consult Sika® Technical Services for advice or alternative recommendations.

### Clean Up

Clean tools in water immediately.

### Disposal

Empty packaging and dispose of in accordance with federal, state and local waste disposal regulations

### 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 install over substrates that contain asbestos.
- Do not apply directly onto gypsum-based floors or, similarly, dimensionally unstable substrates.
- Gypsum substrates should always be dry.
- Do not use on self-stick tile, particulboard, presswood, flake board, 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 and dirt until final floor covering is completely dry.
- Sika® Level Rapid Patch does not provide an aesthetic finish and must receive a final floor covering.
- Not a final wear layer surface.



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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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