

PRODUCT DATA SHEET

SikaQuick® Smooth Finish

Lightweight Mortar for Concrete Reprofiling and Patching

PRODUCT DESCRIPTION

SikaQuick® Smooth Finish is a fast-setting, one-component, polymer-modified, durable, cementitious mortar for repairing and reprofiling vertical and overhead concrete surfaces to achieve a smooth finish.

USES

- Tilt-up panels
- Precast concrete
- Cast-in-place concrete
- Concrete block
- Masonry

CHARACTERISTICS / ADVANTAGES

- Fast-setting; minimal time required between lifts
- Ultra-smooth consistency; easy to apply
- Fast finishing time, potentially sanded and painted same day or next day
- Polymer-modified
- Time- / labor-saving material; application up to 1/2 inch (13 mm) on vertical surfaces in one layer
- Easy to mix; just add clean water
- High bond strength ensures excellent adhesion
- Suitable for interior and exterior applications

PRODUCT INFORMATION

Packaging	50 lb (22.7 kg) bag
Appearance / Color	Precast gray
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged, sealed packaging
Storage Conditions	Store dry at 40° – 95° F (4° – 35° C) Protect from moisture. If damp, discard material.

TECHNICAL INFORMATION

Compressive Strength	1 day	1,000 psi (6.9 MPa)	(ASTM C 109) 73° F (23° C), 50% R.H.
	28 days	> 2,000 psi (13.8 MPa)	
Tensile Adhesion Strength	28 days	> 250 psi (1.7 MPa) substrate failure	(ASTM C 1583) 73° F (23° C), 50% R.H.

APPLICATION INFORMATION

Mixing Ratio	8 quarts - 9 quarts (7.6 - 8.5 liters) of clean water per 50 lb (22.7 kg) bag 2:1 per volume (powder : water)	
Coverage	115 ft ² (10.7 m ²) at 1/16 inch (1.6 mm) thickness per bag (Coverage figures do not include allowance for surface profile and porosity or material waste)	
Layer Thickness	Minimum	Maximum in one lift
	Feather edge	1/2 inch (13 mm)
	If multiple lifts are required, score top surface on each lift to produce a roughened substrate for next lift. Allow preceding lift to develop initial strengths before applying fresh material. Lightly mist with clean water to create a saturated surface dry (SSD) condition.	
Product Temperature	65° - 75° F (18° - 24° C)	
Ambient Air Temperature	40° - 95° F (4° - 35° C)	
Substrate Temperature	40° - 95° F (4° - 35° C)	
Pot Life	<p>Approximately 30 minutes</p> <p>Temperatures will affect the Application Life:</p> <ul style="list-style-type: none"> ▪ Above 73° F (23° C) will reduce the Application Life and workability. Warmer temperatures will increase the rate of strength gain ▪ Below 73° F (23° C) will extend the Application Life and workability. Colder temperatures will decrease the rate of strength gain <p>Finishing time is approximately 1 hour at 73° F (23° C). The product's finishing time will also vary depending on ambient and substrate temperature conditions.</p>	
Waiting / Recoat Times	Refer to Sika Tech Brief # 18-01 for minimum cure times prior to overcoating.	

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

- Surfaces must be clean and sound. Remove all deteriorated concrete/masonry, dirt, dust, oil, grease, contaminants and other bond-inhibiting materials from the area to be repaired.
- Preparation work should be done by pressure washing, light blasting, grinding or other appropriate mechanical means. Obtain a laitance-free and contaminant-free, open textured minimum surface profile [ICRI CSP-3 to CSP-4].
- Blow surfaces clean with oil-free compressed air and/or a wet/dry vacuum to remove any remaining dirt and dust. Remove residual dust to help ensure tenacious bond.
- To ensure optimum repair results, the effectiveness of decontamination and substrate preparation can be assessed by a Pull-Off test (i.e. a Tensile Adhesion test per ASTM C 1583).
- Substrate should be saturated surface dry (SSD) with clean water prior to application. No standing water should remain during application.

MIXING

- Wet down all tools and mixer to be used.
- Pour 8 quarts (7.6 liters) of clean water into a suitably sized mixing container.

- Add the entire bag's contents of SikaQuick® Smooth Finish to the mixing water while continuously mixing with a low-speed rotary drill (400-600 rpm) and paddle.
- Add up to an additional maximum 1 quart (0.95 liter) if needed for the desired consistency.
- Do not overwater as excess water may result in difficulty handling and/or not meeting stated typical physical performance values.
- Mix to a uniform consistency, maximum 3 minutes.
- Do not re-temper.
- Manual mixing can be tolerated only for less than a full unit. Thorough mixing and proper proportioning of SikaQuick® Smooth Finish and clean water is necessary.

APPLICATION

- SikaQuick® Smooth Finish should be applied in one pass in thicknesses ranging from a true feather edge to 1/2 inch (13 mm) in depth.
- Once material is in place and as material hardens, use a trowel to shave or cut the excess material to the desired shape.
- Depending upon actual ambient and substrate temperatures, SikaQuick® Smooth Finish can potentially be sanded and painted the same day or next day.
- Refer to ACI 305 the "Guide to Hot Weather Concreting" or ACI 306 the "Guide to Cold Weather Concreting" when there is a need to place this product

while either hot or cold temperatures prevail. Thinner placements will be more sensitive to the temperature conditions.

CURING TREATMENT

- At 70°F (21°C), SikaQuick® Smooth Finish does not require the use of a curing compound.
- Misting with water should be considered if the product is exposed to higher ambient temperatures, windy or dry conditions.

LIMITATIONS

- Do not apply on gypsum substrates.
- To help control setting times, cold water may be used in hot weather and warm water may be used in cold weather.
- Do not use solvent based curing compounds.
- As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur®-32 Hi-Mod.
- Remixing product after it begins to set is prohibited.
- SikaQuick® Smooth Finish does not form a vapor barrier.
- Bonding agents like Sika® Armatec® products and others, which cure at a slower rate than SikaQuick® Smooth Finish, should not be used. If bonding agents are used, follow cure times for the bonding agents used as a guide prior to putting SikaQuick® Smooth Finish in service. Assure suitability with the manufacturer of the bonding agent.
- Inaccurate proportioning of the clean water to powder will result in a finished product that may not develop stated typical physical performance values.

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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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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.

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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