



PRODUCT DATA SHEET

SikaScreed®-40 Bond Coat

Cementitious bonding agent for SikaScreed®-40

PRODUCT DESCRIPTION

SikaScreed®-40 Bond Coat is a 1-component cementitious bonding agent.

WHERE TO USE

- As a bonding agent for SikaScreed®-40 on properly prepared new concrete, existing concrete and cementitious substrates.
- For indoor and outdoor residential and commercial floors.

CHARACTERISTICS / ADVANTAGES

- Provides an excellent bonding coat for subsequent applications of SikaScreed®-40
- Non-vapour barrier
- Solvent-free

PRODUCT INFORMATION

Packaging	20 kg (44 lb) bag
Colour	White powder
Shelf Life	6 months from date of production when stored in original, sealed package
Storage Conditions	Store in undamaged, unopened, original sealed packaging in dry conditions at temperatures between 5 °C (41 °F) and 35 °C (95 °F). Protect from direct sunlight, heat and moisture.
CSC MasterFormat®	09 30 00 TILING 09 60 00 FLOORING

TECHNICAL INFORMATION

Pull-Off Strength	Adhesion to mechanically prepared concrete	> 1 MPa (> 145 psi) Failure in the substrate	(ASTM C1583 mod)
Pot Life	Between 30 and 45 minutes		
Open Time	10 to 15 minutes		

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

Properties tested at 23 °C (73 °F) / 50 % R.H. unless stated otherwise.

LIMITATIONS

- Do not use where high moisture and hydrostatic conditions and/or recurring moisture problems exist.
- Do not apply to frozen substrates, in the process of thawing or with risk of freezing within 24 hours.
- Do not use over hardwood, Lauan plywood, particle board, strip wood floors, parquet, rubber, cushioned-back vinyl flooring, metal, fibreglass, plastic, OSB panels, or other unstable substrates.
- Do not use over plywood subfloors or underlayment (SikaScreed®-40 Bond Coat is strictly for properly prepared concrete and cementitious substrates.

As well, Sika® recommends:

- To protect stored material from exposure to rain, condensation and high humidity as moisture may penetrate packaging, causing lumps.
- That for best results, condition product to 18 °C (64 °F) to 27 °C (81 °F) prior to mixing and application. Lower temperatures may result in slower strength development and longer cure times.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

JOB SITE CONDITIONS

Maintain environmental conditions and protect work during and after installation. Comply with trade and industry standards and manufacturer's printed recommendations.

For interior jobs in cold conditions, turn off all forced ventilation and radiant heating systems and protect the work against drafts during installation and for at least 72 hours after completion. When necessary, use indirect auxiliary heaters to maintain an adequate temperature level in the working area (ambient and surface temperatures). Exhaust temporary heaters to the exterior to prevent damage to the work or personal injury from carbon monoxide emissions. Maintain work

area at a temperature no lower than 13 °C (55 °F) for at least 24 hours before and after the installation.

For interior jobs in hot conditions (with temperatures exceeding 35 °C (95 °F)), which can be defined as any combination of high air temperature, low relative humidity and wind velocity that can affect the performance of surface preparation consider adjusting the time of the application to a cooler or at least shaded time of the day. Protect from adverse weather conditions (such as but not limited to rain) for at least 24 hours.

For exterior applications, to achieve performance consistent with Technical Data, curing is required and must be provided as per ACI 308 recommendations for cement concrete. Use recognized curing methods, such as a white polyethylene film over the SikaScreed®-40 mortar. Curing must begin immediately after placing and finishing and remain in place for at least 24 hours.

SUBSTRATE QUALITY (regarding concrete substrates)

Surface treatments or any friable areas of the substrate must be mechanically eliminated. Aggressive mechanical preparation (such as but not limited to using a scarifier or a chipping hammer may invite micro bruising of the substrate) Contact Sika's Technical Services for additional information.

Expansion joints should comply with detail 301MJ Movement joint guidelines per TTMAC.

Warning: Refer to the Regulations Made Under the Canada Labour Code for additional information regarding requirements for handling surface containing or suspected of containing lead-based paints or any flooring, substrate or substances that may contain asbestos.

SUBSTRATE PREPARATION

All supporting surfaces should be structurally sound, solid, stable. Surfaces should be clean and free of dust, oil, grease, paint, tar, wax, curing agent, primer, sealer, form release agent and any deleterious substance or conditions that may prevent, reduce or inhibit adhesion or performance. Before work commences, examine the areas to be covered and report any improper condition(s) in writing to the general contractor, architect or engineer. User shall not proceed with the work until surfaces and conditions comply with the requirements indicated in this document; applicable industry standards; federal, provincial and local regulations, as well as good trade practices. By starting work, the Applicator/User acknowledges that the conditions are acceptable.

Concrete (and cementitious substrates)

Concrete must be cured for a minimum of 28 days. Surface should have a minimum surface profile of CSP 2 (ICRI - International Concrete Repair Institute). Alternatively, mechanical preparation should consist of an abrasive screen with a floor polisher (or light diamond cup grinding) towards scuffing up the surface. On grade or below grade concrete slabs must be installed over an effective vapour barrier. On a clean and dust-free substrate, place a single drop of portable water (quarter size) on the substrate using a pipette. The concrete should turn dark. If the drop is absorbed within 60 seconds, the substrate can be considered porous (or absorptive) and acceptable for using SikaScreed®-40 Bond Coat. Otherwise, a bond test should be performed to confirm an adequate bond. If an adequate bond cannot be achieved, the concrete surface should be abraded, and additional bond tests should be conducted. If an adequate bond cannot be achieved or in doubt, contact Sika's Technical Services.

Note: Concrete surfaces finished with a wood float, magnesium float or with a steel trowel with a broom will positively impact bond performances

MIXING

In a clean container, add approximately 4.70 L (1.24 US gal.) of clean potable water. Then add 1/2 bag of SikaScreed®-40 Bond Coat and mix at slow speed until a wet slurry is obtained. Add 1/4 bag and mix between 200-300 rpm until powder comes to a loose paste consistency. Add final 1/4 bag and mix thoroughly to a smooth and homogeneous consistency. Mortar consistency shall be such that when applied with the recommended notched trowel to the substrate, the ridges formed in the mortar do not flow or slump.

NOTE: No Slake Technology - No wait, just mix and trowel

APPLICATION

On rough concrete

Apply 3 to 4 mm (120 mils to 160 mils) of SikaScreed®-40 Bond Coat and using a stiff nylon brush, scrub it onto the concrete surface.

Over concrete (and cementitious substrates) that has a scuffed up surface

With pressure, apply a coat of SikaScreed®-40 Bond

Coat by using the smooth edge of a 6 mm x 6 mm x 6 mm (1/4 in x 1/4 in x 1/4 in) squared notched trowel in order to key the mortar into the substrate. With the notched side of the trowel, apply additional mortar by combing it in a single direction. Follow promptly use the smooth edge of the trowel by applying a small amount of pressure in order to flatten the bonding agent ridges and achieve a continuous film of 3 to 4 mm (3/32 to 1/8 in).

Note: If the scrubcoat dries or skins over before SikaScreed®-40 mixture can be applied. Scrape it off the surface of the concrete and discard it. Recoat before applying SikaScreed®-40.

While the SikaScreed®-40 Bond Coat is still wet, spread a small amount of the SikaScreed®-40 mixture onto the bond coat. Then work the SikaScreed®-40 with a wood or magnesium float into the SikaScreed®-40 Bond Coat. Do not attempt to apply the SikaScreed®-40 at a great thickness of mortar directly to the scrub coat of SikaScreed®-40 Bond Coat as this will affect the bond performance between SikaScreed®-40 Bond Coat and the SikaScreed®-40.

Follow immediately with more SikaScreed®-40 to the desired height (up to 15 cm [6 in]), compacting and closing up the surface. Proceed likewise until the entire floor surfacing is completed. Let the SikaScreed®-40 cure for at least 5 hours based at 23 °C (73 °F) before allowing light traffic and/or before the next planned step.

CLEAN UP

Clean all tools and equipment after use with water. Once hardened, the product can only be removed manually or mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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