



## PRODUCT DATA SHEET

# SikaCem®-172 T1000® Stampable Overlay

Polymer-modified, cementitious stampable overlay formulated for resurfacing structurally sound, non-moving concrete floors and exterior hardscapes

### PRODUCT DESCRIPTION

SikaCem®-172 T1000® Stampable Overlay is a polymer-modified, cementitious stampable overlay formulated for resurfacing structurally sound, non-moving concrete floors and exterior hardscapes. Previously named T1000® Stampable Overlay and SCOFIELD® Texturetop® Pro Stamp Grade.

### USES

- Residential or commercial projects, interior concrete floors, and exterior concrete hardscapes
- Driveways, sidewalks, patios, pedestrian ramps, walkways, building entrances, foyers, stairs, loading docks, parking structures, food courts, drive-thru lanes, crosswalks, pool decks and other concrete surfaces
- Provides a durable surface for stamping with SikaStamp® Stamping Tools or texturing with SikaStamp® Texture Rollers
- Ideal for restoring worn or color-blemished concrete, out-of-level surfaces, or correcting construction errors

### CHARACTERISTICS / ADVANTAGES

- Mixes with water
- Can be integrally colored or stained
- Over 5,000 psi at 21 days
- Freeze-thaw resistant when applied to a clean and sound concrete
- Creates an abrasion-resistant surface suitable for pedestrian and automobile traffic

### PRODUCT INFORMATION

<b>Chemical Base</b>	Polymer Modified Cement
<b>Packaging</b>	55 lb. (24.9 kg) fill in paper bag
<b>Shelf Life</b>	24 months in original unopened container
<b>Storage Conditions</b>	Store in original, unopened containers in dry storage

## Appearance / Color

SikaCem®-172 T1000® Stampable Overlay is packaged in cement gray and cement white. These base colors may be colored with a SikaColor®-100 Color Pack. SikaColor®-100 Color Pack colors are formulated for use with SikaCem®-172 T1000® Stampable Overlay cement gray unless noted otherwise.

**Note:** When SikaCem®-172 T1000® Stampable Overlay is mixed with a SikaColor®-100 Color Pack, the cured color will not be an exact match to concrete colored with SikaColor®-100 P or SikaColor®-200 Color Hardener.

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## APPLICATION INFORMATION

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### Coverage

Approximate coverage rates of one 55 lb. (24.9 kg) unit of SikaCem®-172 T1000® Stampable Overlay are:

24 sq. ft. at ¼ in. thick (2.2 sq. m at 6.4 mm thick)  
16 sq. ft. at 3/8 in. thick (1.5 sq. m at 9.5 mm thick)  
12 sq. ft. at ½ in. thick (1.1 sq. m<sup>2</sup> at 12.7 mm thick)

Coverage will vary depending on the installation depth, substrate texture, application method, and finishing. When imprinting SikaCem®-172 T1000® Stampable Overlay with SikaStamp® Stamping Tools, the overlay shall be applied at a thickness equal to the depth of the mortar joint that will be imprinted with the stamping tool. Material applications that are too thin or too thick may not allow the accurate transfer of pattern and texture into the overlay product.

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### Ambient Air Temperature

Do not mix or install SikaCem®-172 T1000® Stampable Overlay if ambient and substrate temperatures are not between 45-85°F (7.2-29.4°C) unless site conditions can be modified to correct for temperature extremes.

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## 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

- SikaCem®-170 Primer is required prior to application of SikaCem®-172 T1000® Stampable Overlay.
- SikaCem®-172 T1000® Stampable Overlay is formulated for use over thoroughly clean, structurally sound, and non-moving concrete.
- New concrete must be fully cured before applying the product.
- SikaCem®-172 T1000® Stampable Overlay shall not be installed in areas subject to steel wheel traffic, strong chemicals, periodic water immersion, or hydrostatic pressure.
- The cured overlay surface shall be sealed for easy cleaning, particularly on interior floors.
- Random cracks in the existing substrate may transfer through the cured overlay even if they are repaired before application. To minimize this, extend existing substrate control joints up through the overlay.

## 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

Cast a job site mock-up before the installation for approval of color and finish. Utilize all materials, tools, and techniques from the actual job in the mock-up. Consistent batching, pouring, finishing, curing, sealing, and preparation techniques will ensure the uniformity of architectural concrete. Verify adequate wet and dry slip resistance. Maintenance requirements shall also be discussed.

## SURFACE PREPARATION

Remove all potential bond breakers such as grease, oil, paints, sealants, drywall taping compounds, mastics, and other contaminants on the surface. New concrete must be fully cured and free from curing and sealing

compounds, laitance, or dusting. Slick, hard-troweled floors must be opened and roughened. Random cracks must be repaired but may still transfer through the cured overlay.

Surface preparation may include high-pressure washing, grinding, scarifying, shot blasting, or sandblasting, depending on the removed residue type and surface profile required. New concrete must be fully cured and shall be prepared to meet a Concrete Surface Profile of CSP 3. Failure to remove all contamination that impedes the adhesion of SikaCem®-172 T1000® Stampable Overlay will cause the topping to delaminate. Detergents or soaps shall not be used since they may leave a surface residue. Do not acid etch, as it may weaken the surface. Unsound concrete must be removed down to sound concrete.

### Priming

SikaCem®-170 Primer must be used before application. Consult the most current SikaCem®-170 Primer local Product Data Sheet for complete Application Instructions. SikaCem®-172 T1000® Stampable Overlay may be applied as much as 24 hours after primer application. Do not expose the primed surface to moisture or contamination. After 24 hours, or if the primed surface is exposed to moisture or becomes dirty, the primer must be reapplied.

**Note:** On stamping or texturing jobs, when installation is made in multiple pours over a common concrete substrate area, care must be taken to protect the prepared and primed concrete from contamination.

### MIXING

Before mixing, store all materials in a shaded or cool environment. Chilling the water is advisable during hot weather. Use 3.7-4 qt. potable water per 55 lb. (3.5-3.8 L/24.9 kg) bag of SikaCem®-172 T1000® Stampable Overlay. When temperature or humidity affects water demand, make small adjustments to the amount of mixing water as needed to achieve proper working consistency. Do not over-water. Measure the water accurately and consistently from batch to batch. Always add water to the container first. Then, if color is to be used, add the SikaColor®-100 Color Pack while mixing, using a 600 rpm drill and a paddle or mortar mixer, followed by the SikaCem®-172 T1000® Stampable Overlay. Continue to mix for a minimum of 3 minutes until a smooth, uniform, lump-free consistency and a streak-free color have been achieved. If the mixture loses its plasticity, do not retemper with water or add previously mixed material to new batches.

### APPLICATION

SikaCem®-172 T1000® Stampable Overlay can be installed in depths from 1/8 in. (3.2 mm) to a maximum of 1/2 in. (12.7 mm) in a single application.

Mark the location of all working joints in the concrete substrate in order to saw cut joints through the overlay exactly over those existing joints. The overlay joints must be as full-depth and wide as the existing substrate joints.

All repair and patching compounds must be fully cured before applying SikaCem®-172 T1000® Stampable Overlay and SikaCem®-170 Primer.

**Note:** When repair and patching compounds are used, creating a test area using the patch compounds with SikaCem®-172 T1000® Stampable Overlay is recommended to ensure a similar absorption rate; otherwise, ghosting may occur. For thicker applications, allow the material to dry for 8 hours after placement at 70°F (21.1°C), and then apply a second layer. Place additional layers in the same manner. Do not apply SikaCem®-172 T1000® Stampable Overlay over standing or visible moisture on the primed surface.

Always maintain a wet edge during application. Terminate pours at existing joint lines, walls, or other fixed objects. If a pour is terminated in the center of the floor or at a doorway between rooms, for example, delineate the stopping point with a bulkhead form.

Protect SikaCem®-172 T1000® Stampable Overlay from rain for 24 hours after placement.

### Trowel Application

Once thoroughly mixed, pour SikaCem®-172 T1000® Stampable Overlay from the mixing pail onto the concrete surface. A magnesium float or speed float may be used to distribute the product. Similarly, a gauge rake can spread the overlay to a specific and consistent depth before lightly finishing with a magnesium float or magnesium walking float. Keep tools free of build-up by cleaning frequently with water before the SikaCem®-172 T1000® Stampable Overlay dries completely. Apply material at a consistent thickness to minimize random shrinkage cracking.

Refrain from overworking the surface with the magnesium float. Do not hard trowel SikaCem®-172 T1000® Stampable Overlay. Finishing time will vary depending on temperature, wind, humidity, and using a primer or an evaporation retarder. Do not mix or apply more material than can be handled effectively for the installation. If the surface finish of the overlay is not satisfactory, scrape and remove the problem area before it starts to dry, and then reapply the overlay.

**Note:** The reapplied material may be visually different from the surrounding surface.

### Stamping or Texturing

Place or distribute freshly mixed SikaCem®-172 T1000® Stampable Overlay material by magnesium float, speed float, or gauge rake over a properly prepared concrete

substrate. A gauge rake is strongly recommended to achieve a consistent depth to receive the pattern and texture. Imprinting time will vary widely depending on temperature, humidity, and overlay thickness. Begin stamping as soon as the mixture has set sufficiently to achieve a clean impression, usually 20 to 60 minutes after placement. Apply SikaCem®-800 Clear Liquid Release to the area before stamping with SikaStamp® Stamping Tools or texturing with SikaStamp® Texture Rollers. Consult the most current SikaCem®-800 Clear Liquid Release local Product Data Sheets for complete Application Instructions. Do not use SikaColor®-300 Antiquing Release or SikaColor®-340 SG Antiquing Release.

### Curing

SikaCem®-172 T1000® Stampable Overlay is self-curing. However, polyethylene sheets may be used to minimize plastic shrinkage cracking during hot weather or windy conditions. The method of curing may affect the final color of SikaCem®-172 T1000® Stampable Overlay. Verify the curing method and timing with a mock-up. Once the curing method has been determined, utilize it consistently throughout the installation. Curing time varies with ambient and substrate temperatures, as well as humidity. The surface can be walked on gently for approximately 4 hours after placement at 70°F (21.1°C). Cure for at least 96 hours before opening the surface to automobile traffic. A complete 28-day cure is required before heavy traffic or exposure to freeze-thaw cycling.

### Control Joints

Control joints are required. Saw-cutting of control joints directly over the existing control joints in the concrete substrate shall be completed within 14 hours after installation once the surface has gained adequate strength so as not to be damaged by the saw-cutting process. Cool ambient and surface temperatures may delay sawing.

### ANTIQUING

SikaColor®-350 Antiquing Agent may be used to add a secondary coloring effect to the SikaCem®-172 T1000® Stampable Overlay. Once the SikaCem®-172 T1000® Stampable Overlay has cured for a minimum of 24 hours and can withstand foot traffic without marring the surface, the surface shall be cleaned with water and a brush to remove any contaminants and residue from the stamping process and cutting of control joints.

**Note:** A test area shall be cleaned to ensure the cleaning process causes no damage before cleaning the entire area.

Once the surface is cleaned, applying the SikaColor®-350 Antiquing Agent may begin. Consult the most current SikaColor®-350 Antiquing Agent local Product Data Sheet for complete Application Instructions.

### STAINING

For natural appearing color variations, SikaCem®-172 T1000® Stampable Overlay can be colored with SikaColor®-430 Elements® or SikaColor®-420 Chemstain®. Consult the most current SikaColor®-430 Elements® and SikaColor®-420 Chemstain® local Product Data Sheets for complete Application Instructions.

### SEALING

Use SikaCem®-100 Clear Guard®, SikaCem®-100 PRO 350®, or SikaCem® water-based sealers for exterior applications. Use SikaCem® water-based sealers for interior applications. Consult the most current SikaCem® sealer local Product Data Sheets for complete Application Instructions.

### MAINTENANCE

#### Repair

Damage to the overlay surface shall be repaired with SikaCem®-172 T1000® Stampable Overlay. Once the cause of the damage has been determined and corrected, the deteriorated area shall be cut and chipped to the minimum applied depth of the product, 1/8 in. (3.2 mm). If damage to the underlying concrete exceeds the maximum allowable thickness of SikaCem®-172 T1000® Stampable Overlay, 1/2 in. (12.7 mm), use a patching compound to repair the concrete, before the application of SikaCem®-172 T1000® Stampable Overlay or apply SikaCem®-172 T1000® Stampable Overlay in multiple applications, not exceeding 1/2 in. (12.7 mm) in a single application.

The repair cavity shall be chipped to a uniform depth to minimize random shrinkage cracking in the repair materials. The perimeter of the repair cavity shall be saw cut or chipped out to prevent feather edging of the patching compound. All dust and contamination shall be removed before application of the patching compound or SikaCem®-172 T1000® Stampable Overlay. The

repaired area may appear differently than adjacent surfaces. Repair materials and methods shall be evaluated and confirmed with a repair mock-up.

or by calling 1-800-933-7452.

## 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.

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.

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### Product Data Sheet

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