



BRICKFORM® Micro-Topping SG™

Two-Component Concrete Topping - Smooth Grade

FEATURES

- Durable
- Economical
- Easy To Install
- Interior/Exterior Use
- Long Lasting
- Use With Overlay Colorant

PRODUCT DESCRIPTION AND USE • BRICKFORM Micro-Topping is a multi-purpose concrete topping designed to transform tired and distressed concrete into a beautiful new wear resistant surface. The grout mix is used with the BRICKFORM Polymer and can be smooth troweled or lightly textured, colored and/or stained to create a wide array of decorative finishes. When properly installed it permanently bonds to concrete surfaces and becomes a durable topping.

USES • BRICKFORM Micro-Topping is suitable for installation of fully bonded, thin-sectioned layers of up to 1/16th inch (.158 cm) each. Typical applications will include the use of the BRICKFORM SM Professional Grade as a base coat prior to top coating with the BRICKFORM Micro-Topping material. Interior or exterior applications include: hotels, casinos, restaurants, and other commercial applications as well as numerous residential applications. BRICKFORM Micro-Topping can be integrally colored with BRICKFORM Colorants (10 ounce bottles). When the topping has cured, additional coloring can be added with the BRICKFORM Blush Tone Acid Stain, BRICKFORM E-Stain, BRICKFORM Pro Dye or BRICKFORM ARTesian water based stains to create variegated, marbled looks. The product can also be stained a solid color with BRICKFORM Freestyle Pro.

LIMITATIONS • The surface of the concrete must be profiled and a base coat of SM Professional Grade must be installed to prevent telegraphing of surface preparation processes. Applications of BRICKFORM Micro-Topping greater than 1/16th inch are not recommended. Applications of more than three layers of BRICKFORM Micro-Topping totaling more than 3/16th (.476 cm) of an inch is not recommended.

BRICKFORM strongly recommends the use of a Moisture Vapor Evaporation Rate test in accordance with ASTM F1869. Results should not exceed 5 pounds per 1000 square feet per 24 hours based on the recommended test period. Relative humidity tests are strongly recommended as well when used in accordance with ASTM F2170. Results should not exceed 75%. Excessive moisture vapor evaporation rates can soften overlay materials and sealers, cause premature wear, discoloration and/or lead to a complete loss of bond from the concrete slab. Overlays and sealers should always be installed over pH neutral concrete substrates.

COLORING • BRICKFORM Micro-Topping can be integrally colored using 10 ounce bottles of BRICKFORM Colorants available in 39 standard colors.

PACKAGING • BRICKFORM Micro-Topping is available in 40# bags of white or gray grout and is used with the BRICKFORM Polymer that is packaged in 5 gallon re-sealable plastic pails. Shelf life of properly stored materials is approximately one year.

STORAGE • Store BRICKFORM Micro-Topping powder in a safe, dry place. Protect from moisture intrusion by keeping the bags covered with plastic. Protect the BRICKFORM Polymer from freezing.

COVERAGE • BRICKFORM Microtopping, when placed over a base coat of SM Professional Grade that has been primed with 777 Bond Coat, will yield approximately 400-600 square feet per bag depending on application technique. Higher or lower coverage rates should be determined during the mock up phase of the project. The Microtopping should never be applied directly to the concrete slab.

PREPARATION • Surface preparation is the most important process when using any topically applied product available from Brickform. Brickform follows the surface preparation techniques recommended by the International Concrete Repair Institute outlined in its Guideline No. 3102R13 for Overlays. This Guideline is available at icri.org and Brickform highly recommends obtaining a copy and thoroughly familiarizing yourself with the various processes for accurately preparing concrete slabs.

Unless noted in earlier sections of this Technical Information Sheet (TIS), the slab must be fully cured for this product to perform properly. Generally speaking, newly poured slabs must be at least 28 days old. The curing conditions including temperature and humidity have a dramatic effect on how fast or slow the slab cures. Cooler conditions will slow the curing process and these factors must be considered when determining whether a slab has adequately cured for the installation of this product.

Surface preparation requirements are different for every slab and the installer must determine what process is appropriate for the slab they are working on. The recommended surface profile for Brickform overlays is a CSP 1 or CSP2 as defined by the Guideline 3102R13 mentioned above. The application area must be profiled and then thoroughly cleaned. All grease, oil, stains, stain residues, rust, sealers, waxes and the like must be completely removed prior to application of the product.

The use of Brickform E-Etch, a mild etching and cleaning solution, followed by Brickform's Neutra-Clean and clean water rinses may be appropriate for the slab. Please refer to the TIS for these Brickform products for proper use. See also the Brickform E-Etch video online at www.brickform.com.

Acid etching with Muriatic (Hydrochloric) Acid solutions may be appropriate for slabs that require more aggressive etching and cleaning. Solutions as light as 1:20 (acid:water) to as heavy as 1:1 may be necessary depending on the slab finish. When acid washing, it is very important to protect surrounding areas from damage. Plant and animal life, certain finishes on houses, metals, and the like can all be negatively impacted if acid solutions are not used responsibly. Be sure and wear proper personal protective equipment when acid washing. Always pre-wet slabs that are to be acid washed and always neutralize the slab with Brickform's Neutra Clean following the acid wash. Do not allow acid solutions to dry on the slab as dried residues will prevent the sealer from bonding. See www.brickform.com for a video on How to Acid Wash Concrete.

Other mechanical techniques such as grinding, scarifying, shotblasting or sandblasting may be necessary to prepare the slab. See www.brickform.com for other surface preparation techniques using mechanical methods.

Old sealers and cure and seal products must be removed as well. Brickform's Strip-It is an alternative to mechanical methods for their removal. Please review the TIS for Strip It prior to using this product.

The application area must be completely clean and free of grease, oils, dirt, rust, waxes, and organic stains. Mechanical removal of these may prove aesthetically displeasing. There are a number of stain and wax removers and enzymatic cleaners available either commercially or via the internet that work well in these situations.

When using pressure washers to clean slabs, use equipment with a minimum of 3000 psi at 4 gallons per minute. Rotary floor scrubbers with black or red pads are effective for cleaning flat floors. When using rotary floor scrubbers on stamped slabs, nylon bristle brush attachments are necessary to reach imprinted areas effectively.

Once the slab has been profiled, all contaminants and potential bond breakers removed, and thoroughly cleaned, allow the slab to complete dry prior to application of the product.

NOTE: Brickform strongly recommends jobsite samples or mock ups with these products. Individuals who will be performing the work should test different sections of the concrete to determine suitability, coverage, coverage rates and final appearance.

This product is not recommended for pre-sealed or dense surfaces such as glazed tile, marble or granite, dense brick, dense slate, or terrazzo. Dense, power trowelled concrete slabs **MUST** be properly profiled and cleaned for proper adhesion of this product. Properly prepared surfaces will readily absorb water. Water beading up or remaining on the surface indicates additional preparation and cleaning is required.

Do not use this product where hydrostatic pressure is present.

APPLICATION • Temperatures should be in the range of 55-80°F (12.8 C – 26.7 C) before mixing and placing material. Do not use in extreme temperatures or windy conditions. Substrate temperature can affect set times. Application of the material in a representative test area is recommended to help determine set times.

BRICKFORM recommends the application of a base coat of BRICKFORM SM Professional Grade prior to applying the BRICKFORM Micro-Topping to smooth the surface and

eliminate depressions in the concrete surface greater than 1/16th inch. The base coat can be applied with steel trowels or metal or rubber squeegees. Measure and add the BRICKFORM Polymer to a clean mixing vessel. Mix the base coat using 6.5 – 7.5 quarts of BRICKFORM Polymer per 60# bag of SM Professional Grade. If integral color is desired, add one 10 ounce bottle of BRICKFORM Colorant to the Polymer and mix thoroughly prior to introducing the grout. Slowly add the 60# bag of grout to the liquid and mix until uniformly blended and lump free. Allow the mixed material to stand for approximately 10 minutes and re-mix for 90 seconds prior to placement. Pot life for mixed material is between 1-3 hours depending on ambient temperature. Pot life can be extended if material is covered and stored in a cool environment. Apply the base coat over a primed surface using the BRICKFORM 777 Bond Coat (see 777 Bond Coat TIS). Be sure to apply the base coat within two hours of applying the Bond Coat.

Applying the base coat over a Surface Saturated Dry concrete surface (wet with no standing water) is acceptable also. Allow the base coat to set and then sand with 60-80 grit sanding disc on a floor machine, rub bricks or by hand in tight areas. Dry times will vary depending on ambient temperatures and conditions. Coverage rates will be between 150 – 300 square feet per bag depending on the texture and porosity of the concrete. Thoroughly vacuum the area to remove dust left from sanding.

One 40# bag of BRICKFORM Micro-Topping should be mixed with 7-8 quarts of BRICKFORM Polymer. If using the BRICKFORM Colorant (10 ounce bottle), place the Polymer in the mixing vessel first, then the colorant and mix thoroughly. Slowly add the grout to the Polymer and mix until clump free. Allow to stand 10 minutes. Remix for 90 seconds prior to placement. You can now place the Micro-Topping over the SM base coat. Be sure to prime the base coat with 777 Primer. Smoother finishes can be achieved with multiple layers of Micro-Topping.

Note: When using BRICKFORM Colorants (10 ounce bottles), shake the full bottle of color prior to adding it to the Polymer. Once empty, fill the 10 ounce bottle half full of Polymer and shake to release any pigment that may have settled to the bottom and then add to the mixing vessel with the rest of the Polymer. Use like lot numbers to ensure color consistency.

CURING • Additional coloring with the BRICKFORM Blush Tone Acid Stain or the BRICKFORM ARTesian water based stains should take place following a 24 hour curing period.

BRICKFORM Micro-Topping should be allowed to cure for 24 hours following sealer application before allowing foot traffic.

SEALING • After the overlay has been allowed to cure for 12 hours, protect the surface with BRICKFORM Poly-Astic, Gem Seal, Poly Seal, Safety-Seal or Satin-Seal. Please consult the BRICKFORM TIS for any sealer used before using any of these sealers. Once sealed, protect the surface from foot traffic for 24 hours and vehicular traffic for 5 days.

MAINTENANCE • The sealed surface should be inspected periodically for areas of thin or traffic-worn sealer. Brickform recommends the application of Premium Acrylic Floor Finish as a sacrificial coating on interior surfaces. Reapply as needed, according to the appropriate Technical Information Sheet. If traces of efflorescence are present, this should first be eliminated with a gentle cleaner such as BRICKFORM E-Etch™, according to the BRICKFORM E-Etch Technical Information Sheet.

WARRANTY • This product is not intended for public use and is intended for use by trained, professional contractors and installers. It is warranted to be of uniform quality, within manufacturing tolerances. The manufacturer has no control over the use of this product, therefore, no warranty, expressed or implied, is or can be made either as to the affects or as results of such use. In any case, the manufacturer's obligations shall be limited to refunding the purchase price or replacing material proven to be defective. The end user shall be responsible for determining product's suitability and assumes all risks and liability.

WARNING • KEEP OUT OF REACH OF CHILDREN. Before using or handling, read the Material Safety Data Sheet and Warranty. DO NOT TAKE INTERNALLY. Avoid contact with eyes and skin. When working with or near this product, all personnel must wear OSHA-NIOSH approved respirators (refer to OSHA standards in 29 CFR 1910.134). Prolonged, unprotected exposure may result in non-reversible Silicosis or Lung Cancer. Avoid inhalation and use local exhaust to keep exposures below OSHA PEL's for silica and nuisance dusts. Wear rubber gloves and aprons to protect skin and wear safety eye goggles. Wash splatters from skin immediately. Close containers after each use. Use good hygiene when handling this product and wash and bathe after each use. Be sure to wash clothing after each use.

HAZARDOUS INGREDIENTS • Section 313 Supplier Notification: This product contains the following toxic chemical(s) subject to the reporting requirements of SARA TITLE III, Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372:

CAS#	CHEMICAL NAME	%BY WEIGHT
14808-60-7	Silicon Dioxide	10-25
65997-15-1	Portland Cement	10-25

Repeated inhalation and prolonged exposure may result in delayed, lung injury, especially in those with existing respiratory ailments. Acute silicosis may develop in a short time, with heavy exposure. Silicosis can be progressive and may cause death. Prolonged, unprotected exposure to skin may result in a dry, itchy rash that may abrade the skin and develop into dermatitis.

SAFE HANDLING INSTRUCTIONS • DO NOT TAKE INTERNALLY. Avoid contact with eyes and skin. Do not breathe the dust. Close container after each use. When working with or near this product, all personnel must wear OSHA-NIOSH approved respirators. Refer to OSHA standards in 29 CFR 1910.134. Avoid inhalation and use local exhaust to keep exposures below OSHA PEL's for silica and nuisance dusts. Avoid contact with skin and eyes. Wear rubber gloves and aprons to protect skin and wear safety eye goggles. Use good hygiene when handling this product and wash and bathe after each use. Be sure to wash clothing after each use.

FIRST AID AND EMERGENCY INFORMATION • **Eyes:** DO NOT RUB! Rinse with water 15 minutes and SEE A PHYSICIAN IMMEDIATELY. **Inhalation:** Remove to fresh air. If respiratory symptoms persist or develop, SEE A PHYSICIAN. **Ingestion:** Drink 2 glasses of water, DO NOT induce vomiting and IMMEDIATELY SEE A PHYSICIAN. **Skin:** Rinse free of material, then wash with soap and water. If irritation persists or develops, SEE A PHYSICIAN. **In case of fire:** Product is not flammable. Use standard fire-fighting procedures without regard to product. **In case of spills:** Collect spilled powders and place in containers. Avoid generation of dust. Dispose of in accordance with local, state, and federal regulations for disposal of non-hazardous waste.

REACTIVITY DATA • Product is stable under normal conditions. Product will react with organic and inorganic acids (strong oxidants). Product reacts with water, forming polymerized silicates and calcium hydroxide. CONDITIONS TO AVOID: High humidity.

ORDER SPECIFICATIONS

Product

Micro-Topping SG (Gray) Kit

Shipping Weight	Container Size	Item No.
37 Lbs (16.65 kg) Bag Size(x2)	37 Lbs (16.65 kg) Bag	MT-1500
42 Lbs (18.9 kg) Liquid Polymer	5-Gallon (19.92 L)	MT-3000

Product

Micro-Topping SG (White) Kit

Shipping Weight	Container Size	Item No.
37 Lbs (16.65 kg) Bag Size(x2)	37 Lbs (16.65 kg) Bag	MT-2500
42 Lbs (18.9 kg) Liquid Polymer	5-Gallon (19.92 L)	MT-3000

Product

Micro-Topping Colorant

Shipping Weight*

*Weights will vary, depending on the color chosen. Please contact Customer Service for exact weights and sizes.

39 Standard Colors (except Smokey Blue)

**FOR CHEMICAL EMERGENCY
CALL 800-373-7542**