

BRICKFORM

SM PRO PLUS

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PRODUCT DESCRIPTION

Brickform SM Pro Plus is an add water, cementitious resurfacing product designed to be applied with a hopper gun or trowels. It can be patterned and textured to create the look of brick, stone, tile, or other unique specialty finishes. SM Pro Plus is mixed with water and can be integrally colored using the BRICKFORM Overlay Liquid Colorant (10-ounce bottles).

- Water added formula
- Can be integrally colored
- Spray, trowel, or squeegee
- Can be broom finished

COVERAGE RATES & PACKAGING

- Available in 55 lb. bags
- 150 ft² (13.93 m²) to 300 ft² (27.87 m²) per bag for base coat, depending on porosity of concrete
- 150 ft² (13.93 m²) to 200 ft² (23.22 m²) per bag for texture coat, troweled or sprayed

STORAGE & SHELF LIFE

- Store in a safe, dry place. Protect from moisture intrusion by keeping the bags covered with plastic.
- Shelf life is approximately 12 months.

USE & APPLICATION

PRECAUTIONS:

Brickform strongly recommends jobsite samples or mock-ups with these products. SM Pro Plus should be applied when the air temperature is between 50°F (10°C) and 85°F (29.5°C). Protect all surrounding areas to reduce the possibility of staining during application. Please obtain a copy of the appropriate Technical Information Sheet and SDS for each product before attempting to use. Warm weather will shorten pot life. Use within 1-2 hours. SM Pro Plus is not a final topping and must be sealed to protect its appearance. It is important to protect the surface from rain, irrigation systems, moisture, and potential staining until it can be sealed.

- A Moisture Vapor Evaporation Rate test in accordance to ASTM F1869 is recommended prior to application. Results should not exceed 5 lbs. per 1000 ft² per 24 hours. Relative humidity above 75% is not recommended as per ASTM F2170.

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. 310.2R Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer 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 SM Pro Plus is a CSP 1, CSP 2 or CSP 3 as defined by the Guideline 310.2R 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. 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.

The use of Brickform E-Etch, a mild etching and cleaning solution, followed by Brickform's NeutraClean 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.

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



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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.
- Surface preparation videos can be viewed at www.brickform.com

PRIMING:

Once the surface is properly cleaned, prepared and dry, apply Triple Seven Bond coat by sprayer or roller to the entire surface. Allow Triple Seven to dry during the mixing process. Refer to the Triple Seven Bond Coat TIS prior available at www.brickform.com.

MIXING:

SM Pro Plus is mixed with water. Always measure the water, colorant and grout to the proper proportions as variations in these can lead to differences in color and texture. Measure and add water to a clean mixing vessel. For base coats use approximately 5.5-6 qts of water per bag and for spray applications or texture coats, use between 4.5-5.25 qts. NO NOT EXCEED 7 QTS/BAG. If integral color is desired, add one 10 oz. bottle of BRICKFORM Overlay Liquid Colorant to the water and mix thoroughly prior to introducing the grout. Slowly add the 55lb bag of grout to the water and mix with a paddle drill mixer until uniformly blended and lump free. Allow the mixed material to stand for approximately 5 minutes and re-mix for 90 seconds prior to placement.

Note: When using BRICKFORM Liquid Colorants (10-ounce bottles), color must be added to the water, prior to adding the SM Pro Plus, shake the full bottle of color prior to adding it to the water. Once empty, fill the 10 ounce bottle half full of water 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 water.

APPLICATION:

Trowel or squeegee the base coat on uniformly and finish smooth at 1/16" to 1/8" thickness. Allow the base coat to dry for at least two hours or more depending on ambient conditions. NOTE: When using SM Pro Plus as a base coat (RG) for the BRICKFORM Micro-Topping, refer to the Micro-Topping TIS for specific application instructions. Once dry, the base coat can be sanded with a 60-80 grit sanding disc on a floor machine or a mason rub brick. Remove all residues from the sanding process. Patterns can then be created using fiber reinforced pattern tape or vinyl stencils. Mix the texture coat (see above instructions) and apply with a trowel or a hopper gun (texture type spray gun) at 1/8" to 3/16" thickness. Sprayed texture can be "knocked down" by using a pool trowel if desired. Do not add water to the surface or finish with an overly wet trowel as this can discolor the surface. Remove any pattern work as soon as the material is hard enough to walk on. Allow the finish to cure for 24 hours. High spots in the surface should be removed with a metal scraper or masons stone (rub brick) taking care not to harm the desired texture. Any debris should be vacuumed or blown off the surface.

STAINING & ANTIQUING:

Allow the material to cure for a minimum of 24 hours prior to antiquing or

staining. Use Brickform ARTesian Water-Based Stain, Blush-Tone Acid Stain or Antique-It to add secondary color.

SEALING

Allow the material to cure for a minimum of 24 hours prior to applying sealer, seal using the specified Brickform sealer following the appropriate TIS.

MAINTENANCE

The sealed surface should be inspected periodically for areas of thin or traffic-worn sealer. Brickform recommends the reapplication of sealer as needed. If traces of efflorescence are present, this should first be eliminated with a gentle cleaner such as Brickform E-Etch.

RECOMMENDED TOOLS & CLEAN UP

- Paddle Mix/Overlay Mixer
- Trowels, Squeegee, Hopper Gun
- Mason Rub Brick/Rubbing Stone
- Rotary Floor Sander

COMPLEMENTARY PRODUCTS

- E-Etch - Cleaning and etching agent
- Neutra Clean - Cleaning and neutralizing agent
- Triple Seven Bond Coat - Primer
- ARTesian Water-based Stain
- Blush-Tone Acid Stain
- Antique-It
- Brickform Sealers

TEST RESULTS

ASTM C 307 - Tensile Strength

Tensile Strength @ 7 Day = 509 psi

ASTM C 579 - Compressive Strength (Method A)

Compressive Strength @ 7 Days = 3590 psi

ASTM C 580 - Flexural Modulus (Method A)

Flexural Modulus @ 7 Days = 1062 psi

ASTM C 666 - Freeze-Thaw Resistance (Procedure A)

Durability Factor @ 300 Cycles = 93.3

ASTM C 932 - Bond Strength

Bond Strength @ 7 Days (dry cure) = 365 psi

Bond Strength @ 7 days (wet cure) = 118 psi

ASTM E 96 - Water Vapor Transmission

Water Vapor Transmission = 3.50 grains/h-ft²; (2.44 grams/h-m²)

Permeance (Perms) = 8.44 grains/h-ft²-in.Hg

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MIL-D-3134- Impact Resistance

Impact Resistance = No cracking or delamination

ASTM C501- Abrasion Resistance

Loss (unsealed) 5.7%

Loss (sealed) 0.1%

SAFETY & PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN. Before using or handling, read the 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 MSHA-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 fans 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. Wash splatters from skin immediately. Use good hygiene when handling this product and wash and bathe after each use. Close containers after each use. Be sure to wash clothing after each use.

WARRANTY

This product is not intended for public use and is intended for use by licensed contractors and installers, experienced and trained in the use of these products. 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 effects or results of such use. In any case, the manufacturer's obligations shall be limited to refunding the purchase price or replacing material proven defective. The end user shall be responsible for determining product's suitability and assumes all risks and liability.

For more information go to:

solomoncolors.com or brickform.com

INFORMATION