

Brickform SM Professional Grade

Product Description

Brickform SM Professional Grade is a sprayable acrylic modified, cementitious overlay that is designed to be applied with a hopper gun. The product is mixed with liquid polymer and can be integrally colored using the Brickform Overlay Liquid Colorant (10 ounce bottles). The advanced polymer matrix allows the product to be sprayed or troweled to create unique concrete surfaces that, when sealed, are resistant to water intrusion which minimizes premature surface degradation.

Features

- Add-Polymer formula
- Can be integrally colored
- Spay, trowel, or squeegee
- Broom finish
- Water resistant

Coverage Rates & Packaging

Available in 60 lb bags.

- 150 to 300 ft² per bag for base coat, depending on porosity of concrete
- 150 to 200 ft² per bag for texture coat, troweled or sprayed

Use & Application

Surface Preparation: Brickform strongly recommends representative jobsite test sections. The same installers, specified materials, and finishing and curing techniques should be used as on the final application. THE CONCRETE SURFACE MUST BE PROFILED. A profile of CSP-1, -2, or -3 is recommended following the standards outlined in ICRI Guideline No. 310.2. Use caution when shot-blasting or scarifying. A skilled operator is recommended. Apply on clean, sound, and fully cured concrete. Surface must be free of all sealers, dirt, oil, paint, most, dust, or other contaminants. Repair damage and deterioration before application. Cracks, holes, spalls, etc. should be filled. Deeper repairs requiring repair mortar should be allowed to fully cure before SM Professional Grade application. Honor control joints. Reopen control joints after application if they are filled. If epoxy is used to repair cracks, contain it to the crack and broadcast silica sand to ensure proper bonding. Additional relief cuts around cracks can be cut before or after application of SM Pro. Contaminants prone to migration, like hydraulic fluid or cutting oils, should be marked, degreased, and shot-blasted until they turn white. Always pressure wash or vacuum the surface to remove dust and debris from other prep and repair procedures. Keep prepared surface clean

throughout application. Proper surface preparation is vital to a successful job.

Mixing: Only mix with Brickform Liquid Polymer in quantities specified in this document. Variations in the amount of polymer used can lead to color and texture differences. Use 5-7 quarts of Brickform Liquid Polymer per 60 lb. bag of SM Professional Grade. Add 6.5-7 qts of polymer to a clean mixing vessel for base coats; 5-6.5 qts for texture/spray coats. If coloring integrally, thoroughly mix 1 10 oz bottle of Brickform Overlay Liquid Colorant with the polymer before adding grout. Once empty, fill Liquid Colorant bottle halfway with polymer, shake to release settled pigment, and add back to mixing vessel. Slowly add 1 60 lb bag of SM Professional Grade to the liquid component and mix until uniform and lump free. Allow to stand for 5 minutes, remixing for 90 seconds prior to application. Pot life is 1-3 hours depending on ambient conditions. Extend pot life by storing in a cool environment or covering. In warm weather, keep material out of direct sunlight. Polymer may be stored on ice. Brickform Turtle Set can be used to extend pot life. Reference Turtle Set TIS. If mixing less than a full batch, preblend dry material to ensure material has not separated during shipping. Mix using above instruction at a ratio of 0.8-1.2 qts polymer per 10 lb grout.

Application: Apply SM Professional Grade to a prepared surface primed with Brickform Triple Seven Bond Coat. Reference that product's TIS for application. If Triple Seven Bond Coat is not available, saturate the surface with water prior to application, but do not allow puddles or standing water. Trowel the base coat to a uniform and smooth finish. Allow to dry at least 2 hours depending on conditions. Once dry, sand 60-80 grit sanding disk, floor machine, or mason rub brick. Clear sanding dust and residue. If desired, create patterns using reinforced Design Tape or vinyl stencils. Mix the texture coat and apply using a hopper gun or trowel. If troweling, do not apply at thickness less than 1/8". Do not add water to the surface or use an overly wet trowel as this can cause discoloration. Spray textures can be "knocked down" with a pool trowel. Remove pattern tape or stencils when the material is hard enough to walk on. Allow to fully set. High spots should be removed with a metal scraper or mason stone, taking care not to harm desired textures. Vacuum or blow off debris.

Curing & Sealing: SM Professional Grade should be allowed to fully set prior to staining or sealing. Set time will depend on conditions. Add additional color with Brickform Blush Tone Acid Stain, E-Stain, ARTesian Water-Based Stain, or ProDye Plus (interior only). Seal with Brickform Gem-Seal, Poly-Seal, Safety Seal, Satin Seal, DecoPoxy, Uremax, or Poly-Astic. Reference appropriate TIS for the stain and sealer you choose.

Maintenance: Sealed surfaces require maintenance. The sealed surface should be inspected periodically for areas that are thin and worn due to high traffic. For interior applications Brickform, Premium Acrylic Floor Finish can be used as a sacrificial coating. If traces of efflorescence appear, clean with a gentle cleanser such as Brickform E-Etch. Refer to the appropriate TIS for these products.

Complimentary Products

The following Solomon Colors products may be used with SM Professional Grade and Liquid Polymer

- *E-Etch*—Cleaning and etching agent
- *Neutra Clean*—Cleaning and neutralizing agent
- Brickf
- *Turtle Set*—Set retardant
- *Triple Seven Bond Coat*—Primer
- *Brickform Stains (various)*
- *Brickform Sealers (various)*

Recommended Tools

- Mason Rub Brick/Rubbing Stone
- Squeegee
- Trowels
- Hopper Gun/Texture Sprayer
- Rotary Floor Sander

Safety and Precautions

KEEP OUT OF REACH OF CHILDREN. Before using or handling, read the Material Safety Data Sheet and Warranty. **DO NOT TAKE INTERNALLY.** All concrete finishers and all onsite personnel must wear an OSHA-NIOSH approved dust respirator while applying or working around this product. Avoid contact with skin and eyes. Wear rubber gloves to protect skin and safety eye goggles. 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.

Limitations

Use only on properly prepared, structurally sound concrete surfaces. Ambient and surface temperature should exceed 50F (4C). Product should not be applied at thickness exceeding 3/16" with multiple coats not exceeding 1/2". Do not apply if rain is expected within 24 hours of installation. Do not apply at depths greater than 3/16"; total depth should not exceed 1/2". Brickform recommends a Moisture Vapor Evaporation Rate test in accordance with ASTM F1869. Results should not exceed 5 lbs per 1000 ft² per 24 hours. Relative humidity test in accordance with ASTM F2170 are recommended. Results should not exceed 75%. Excessive moisture can soften materials and lead to premature wear, discoloration, and failure. Apply materials over pH neutral concrete substrates.

Storage

Store in a safe, dry place. Cover with plastic to protect against moisture. Protect Liquid Polymer against freezing. Self life approx. 12 months.

Test Data

ASTM C 307 – Tensile Strength

Tensile Strength @ 7 Day = 486 psi

ASTM C 579—Compressive Strength (Method A)

Compressive Strength @ 7 Days = 3650 psi

Compressive Strength @ 28 Days = 4090 psi

ASTM C 580—Flexural Modulus (Method A)

Flexural Modulus @ 7 Days = 1258 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) = 525 psi

Bond Strength @ 7 days (wet cure) = 200 psi

ASTM E 96—Water Vapor Transmission

Water Vapor Transmission = 1.40 grains/h-ft² (0.97 grams/h-m²)

Permeance (Perms) = 3.37 grains/h-f²-in.Hg

MIL-D-3134– Impact Resistance

Impact Resistance = No cracking or delamination

Plan Specifications

Brickform SM Professional Grade Plus Suggested Short Form Specification: All concrete flatwork designated in the plans and specifications as coated with SM Professional Grade Plus shall be primed with Brickform Triple Seven Bond Coat, both manufactured by Brickform 800-483-9628 Rialto, CA 909-484-3399. Brickform SM Professional Grade Plus shall be applied in accordance with the Brickform SM Professional Grade Plus Technical Information Sheet.

Order Specifications

Product:

SM Professional Grade

Shipping Weight	Container Size	Item No.
60 lbs. (27 kg)	60 lbs. (27 kg)	MT-4000

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.