

# CUSTOM BRICK™

Cementitious Finish System  
For Use On Vertical Walls



DS214

## Custom Brick Finish Cementitious System Application Instructions For Use On Vertical Walls

**Recommended Tools For Installation of The Custom Brick Finish System**

1. Variable Speed Drill capable of producing 1000 RPM's
2. Wind-lock B-M1 mixing blade or equivalent
3. Extension Cord
4. Clean 5 Gallon Plastic Containers
5. Measuring Bucket [3.8 liter ( 1 gallon)]
6. Hand Grinding Stone
7. Builders Square
8. Tape Measure
9. Level
10. White Chalk Line
11. White Chalk
12. Pencil
13. Utility Knife
14. Scissors
15. Paper Filament Tape
16. Masking Tape
17. Stainless Steel Trowel
18. Margin Trowel
19. Small Paint Brushes
20. Camel Back Sponges
21. Paint Roller
22. Extension Handle
23. Hopper Gun, Compressor, and Air Hose
24. Auto Body Paint Sprayer

## I. Substrate Inspection

- A. Prior to installing the Custom Brick Finish materials, inspect the substrate to ensure that it is of the type and condition listed below:
1. Dryvit Exterior Insulation and Finish System. **Note: Refer to the applicable application instructions to ensure that the system has been installed properly. Custom Brick Finish takes the place of the finish material in the Dryvit EIF system.**
  2. Sound concrete, masonry or stucco
  3. Interior application
    - a. Drywall, plaster, concrete or masonry

## II. Surface Preparation

- A. Dryvit Exterior Insulation and Finish Systems
1. The reinforcing mesh must be totally embedded in the EIFS base coat. Base coats not prepared properly shall be skimmed with the Dryvit Genesis® mixture to provide a smooth, flat, level base.
  2. The base coat must be fully dried (a minimum of 24 hours depending on weather conditions).
  3. The base coat must be free of any imperfections prior to applying the Custom Brick Finish.
  4. All walls shall be free of surface contaminants such as dust, dirt, efflorescence etc., which may impair the adhesion of the Custom Brick Finish.
- B. Concrete, Masonry, Stucco
1. Concrete walls shall have cured a minimum of 28 days prior to application of the Custom Brick Finish. Stucco walls shall cure a minimum of 7 days prior to application of the Custom Brick Finish.
  2. All walls must be free of surface contaminants such as dust, dirt, paint sealers, efflorescence etc. which may impair the adhesion of the Custom Brick Finish.
  3. All rough surfaces shall be skimmed with the Dryvit Genesis mixture to provide a smooth, flat, level base. See Section IV for application technique. **Do not skim painted walls.**
  4. All concrete surfaces shall be coated with a Prep Coat of the Custom Brick Liquid Admixture and clean potable water mixed in a ratio of 4 parts water to 1 part Liquid Admixture. See Section V for application technique.
- C. Interior Surfaces
1. Drywall shall have its joints taped and fasteners spotted with drywall joint compound. The surface of the drywall shall be sanded smooth as if it were being prepared for painting. All sanding dust must be removed. A Prep Coat of the Custom Brick Liquid Admixture and clean potable water mixed in a ratio of 4 parts water to 1 part Liquid Admixture shall be applied to the drywall surface prior to applying the Custom Brick Finish. See Section V for application technique.
  2. Interior plaster shall be finished smooth.
  3. Interior concrete or masonry must be cleaned to remove any surface contaminants such as dust, dirt, paint sealers, efflorescence, curing compounds etc. which may impair the adhesion of the Custom Brick Finish. All rough surfaces shall be skimmed with the Dryvit Genesis mixture to provide a smooth, flat, level base. See Section IV for application technique. **Note: All concrete, block or other masonry surfaces shall be coated with a Prep Coat of the Custom Brick Liquid Admixture and clean potable water mixed in a ratio of 4 parts water to 1 part Liquid Admixture. See Section V for application technique. Do not skim painted walls.**

## III. Mixing Instructions

- A. Genesis
1. Open the bucket with a utility knife or lid-off.
  2. Due to shipping and storage, there may be some separation of materials. Prior to splitting the material and adding Portland cement, remix the material thoroughly. Use a Wind-lock B-M1 mixing blade or equivalent powered by a 13 mm (1/2 in) variable speed drill capable of producing 1000 RPM's. **CAUTION: Do not over-mix or use other types of mixing blades as air entrapment and product damage may occur and result in workability and performance problems.**
  3. Pour 1/2 of the freshly mixed material [approximately 13.5 kg (30 lbs)] into a clean plastic container.
  4. Add .95 L (1 qt) of clean potable water and 1/3 of a bag [approximately 13.5 kg (30 lbs)] of fresh, lump free Type I or II Portland cement. Either Gray or White cement is acceptable. Add cement slowly and mix thoroughly. **Do not add large quantities of cement at one time.**
  5. Additional water may be added to the mixture to achieve a workable consistency. Up to 1.9 L (1/2 gal) of water per 1/2 pail of Genesis may be added. **CAUTION: Do not over-water as this will degrade the performance of the material and promote efflorescence.**

6. **Note:** It is advisable to mix the Genesis material with Portland cement thoroughly then wait five (5) minutes and mix again to break the initial set. Retempering with a small amount of water is permissible provided the mixture has not set. The mixture has a pot life similar to any Portland cement material. Mix only as much material as can be conveniently used during a work period. **WARNING: No additives such as sand, aggregates, rapid binders, anti-freeze, accelerators, etc., shall be added to any Dryvit materials under any circumstances. Such additives will adversely affect the performance of the material, and void all warranties.**
- B. Prep Coat (for concrete, block or other masonry surfaces)
  1. Mix one part Custom Brick Liquid Admixture with four (4) parts water.
- C. Custom Brick Grout and Finish
  1. Pour the Custom Brick Liquid Admixture into a clean plastic 3.8 liter (1 gallon) container. Fill the plastic container within 1 inch of the top of the container [for reference purposes this material will weigh approximately 4 kg (8.86 lbs)]. **Tip: For best results in high temperature areas, we suggest to chill the Liquid Admixture until ready to mix.**
  2. Pour 3/4 of this material into a clean 19 liter (5 gallon) plastic container. The remaining 1/4 shall be used to clean out the Custom Brick Tint Pack.
  3. Place the mixing paddle in the container then add 1 bag [21 kg (46 lbs)] of Custom Brick Grout and Finish. **Note: Always add dry mix to Liquid Admixture.**
  4. Add the Custom Brick Tint Pack to the mix. Use the remaining material in step 2 to thoroughly clean out the tint pack vial or bag and add material to mix.
  5. Mix thoroughly for 3 to 4 minutes to ensure color uniformity using a Wind-lock B-MGSI or B-MHSI mixing blade or equivalent powered by a 13 mm (1/2 in) variable speed drill capable of producing 1000 RPM's, just prior to application. **Note: An additional 1.9 liters (1/2 gallon) of Liquid Admixture may be added for high temperature and low humidity conditions to adjust the mix consistency.**
- D. Sealer
  1. Dryvit SealClear requires light mixing with a stirring stick or by boxing (pouring from pail to pail) prior to use.

#### IV. Genesis Application (if required)

- A. Air and surface temperatures for application of the Genesis mixture must be 4 °C (40 °F) or higher and must remain so for a minimum of 24 hours.
- B. Mix the Genesis material as described in Section III.A.1 through 6.
- C. With a stainless steel trowel apply the Genesis mixture to a uniform thickness providing a smooth surface for the Custom Brick Grout and Finish.
- D. Allow the Genesis mixture to dry. The drying time of the Genesis mixture is dependent upon the air temperature and relative humidity. Under average drying conditions [21 °C (70 °F), 55% RH], the Genesis mixture will dry in 24 hours.

#### V. Prep Coat Application (for interior drywall, concrete, block or other masonry surface)

- A. Mix the Prep Coat as stated in Section III.B.
- B. With a 9 mm - 13 mm (3/8" - 3/4") paint roller or spray equipment, apply the Prep Coat to the substrate just prior to the Custom Brick Grout and Finish.

#### VI. Custom Brick Grout Coat Application

- A. Air temperature for application of the Custom Brick Grout and Finish mixture must be 10 °C (50 °F) or higher, but less than 43 °C (110 °F) and must remain so for a minimum of 6 hours.
- B. Inspect and prepare the substrate as described in Sections I and II.
- C. With a Hand Grinding Stone or scraper, remove all high points which may have resulted from trowel marks, aggregate, etc.
- D. Prior to applying the Custom Brick Grout and Finish, the wall surface shall be fogged or misted with water. **Note: When applying the Custom Brick Grout and Finish over a concrete, block or other masonry surface, it is not necessary to fog or mist the wall since a Prep Coat is required. Application of the Custom Brick Grout and Finish is best achieved over a damp substrate.**
- E. Mix the Custom Brick Grout and Finish as described in Section III.C.
- F. Using a stainless steel trowel apply the Custom Brick Grout and Finish over the prepared substrate. Screenshot the material very thin, leaving just enough material to completely cover the underlying substrate. Coverage should yield 20.9 - 23.2 m<sup>2</sup> (225 - 250 ft<sup>2</sup>).

- G. Allow the Custom Brick Grout and Finish to thoroughly dry (normally 2-6 hours) prior to installing Custom Brick Templates.

### VII. Custom Brick Template Application

- A. Prior to applying the template remove any high or rough edges from the grout coat with a Hand Grinding Stone or Scraper.
- B. Templates are available in a variety of brick and natural stone patterns. These may also be custom designed to suit a particular application. Standard template thickness is .028 or .070 inch.
- C. Templates must be placed from a "starting line" that is logistically placed in the field of the wall. **Do not start from the perimeter edges.**
- D. Template sizes vary depending on pattern. Once the pattern is determined, measure up from the bottom of the wall in template width increments and make a pencil mark at that increment closest to the center of the wall.
- E. Using a level, place a second pencil mark to use as a guide in snapping a chalk line. **CAUTION: USE WHITE CHALK ONLY.** Other chalk colors will show through the finish material.
- F. This chalk line becomes your **level line**.
- G. From the end of the wall measure along the level line in template length increments and make a pencil mark at the increment that is closest to center of the wall area or panel being coated.
- H. From this mark, use a level to place a second pencil mark to use as a guide in snapping a vertical chalk line. **CAUTION: USE WHITE CHALK ONLY.** Other chalk colors will show through the finish material.
- I. This chalk line becomes your **plumb line**.
- J. Prior to laying templates check these lines for squareness.
- K. Templates shall be installed to achieve the desired pattern. Some templates will abut each other and others will overlap each other 1.6 mm (1/16 in). **Note: Abutting templates must be taped at all joints. We recommend paper filament tape provided by Dryvit Systems, Inc.; standard masking tape is not acceptable.**
- L. Prior to removing the paper backing from the template, check the positioning of the template against the wall.
- M. Remove the paper backing from the template and position one side of the template against the plumb line and the other against the level line. Press the template on the wall making sure that all edges are adhered.
- N. Continue to install templates using the previous reference lines or the previous template as a guide until the entire surface is covered.
- O. Lay out only the amount of templates to be top coated at that time. **Do not leave templates uncoated overnight as moisture may affect adhesion.**

### VIII. Custom Brick Grout and Finish Application

- A. Inspect the template placement making sure that the desired pattern exists, all joints are taped (where required), and that the templates are adhered securely to the underlying substrate by lightly going over the templates with a round edged flexible trowel.
- B. Mix the Custom Brick Grout and Finish as described in Section III.C.
- C. Using a flexible end (round) stainless steel trowel, apply the Custom Brick Grout and Finish over the templates keeping the material flush with the top of the templates. The desired texture can be accomplished at this time.
- D. Allow the Custom Brick Grout and Finish to completely dry prior to removing templates or shading.

### IX. Shading, Template Removal and Touch-Up

- A. Shading (optional)
1. Wash - Wet (changes or uniformly stains the original color)
    - a. The Custom Brick Grout and Finish must be completely dry prior to shading.
    - b. In a clean plastic container mix 1 part Custom Brick Liquid Admixture with 4 parts water. Add Tint Pack into mixture to obtain desired color.
    - c. Dip a camelback sponge into the prepared solution, and sponge apply the material over the Custom Brick Grout and Finish as desired. **Note: A camelback sponge is the only type recommended.**  
**CAUTION: Saturation of the sponge is not recommended since rundown will occur.**

2. Buff - Dry (provides white accent to existing color and texture)
  - a. The Custom Brick Grout and Finish must be completely dry prior to shading.
  - b. In a clean plastic container mix 1 part Custom Brick Liquid Admixture to 4 parts water.
  - c. Dip a camelback sponge into the prepared liquid and squeeze excess mixture out of sponge (sponge should be damp not saturated). Then dip the same sponge into the white Custom Brick Grout and Finish.
  - d. Sponge apply the material over the Custom Brick Grout and Finish as desired to highlight the texture.

**Note: A camelback sponge is the only type recommended.**

3. Buff - Wet (provides accent to existing color and texture)
  - a. The Custom Brick Grout and Finish must be completely dry prior to shading.
  - b. In a clean plastic container mix 1 part Custom Brick Liquid Admixture with 4 parts water. Add Tint Pack into mixture to obtain desired color.
  - c. Dip a camelback sponge into the prepared liquid and squeeze excess mixture out of sponge (sponge should be damp not saturated).
  - d. Sponge apply the material over the Custom Brick Grout and Finish as desired to highlight the texture.

**Note: A camelback sponge is the only type recommended.**

**B. Template Removal and Touch-Up**

1. Carefully remove the templates, avoiding jagged edges. **CAUTION:** Do not remove templates until Custom Brick Grout and Finish has totally dried.
2. Should any of the Custom Brick Grout and Finish material seep under the templates, use a 13 mm (1/2 in) edging tool to clean out the joint. Then mix a small amount of the Custom Brick Grout and Finish color and touch-up with a small paintbrush.

**X. Sealer Application**

**A. Dryvit SealClear**

1. Prior to applying the sealer, the Custom Brick Grout and Finish Coat and Shading must be completely dry. **NOTE: Application of sealer prior to the Custom Brick Grout and Finish completely drying will result in clouding of the Sealer.**
2. Apply the sealer with a paint roller, brush or airless spray. Two (2) coats of sealer are required allowing two hours of drying time between coats. **Note: Do not apply sealer in inclement weather.** Surface temperature for application must be 13 °C (55 °F) or higher but less than 43 °C (110 °F).

**DISCLAIMER**

Information contained in this specification conforms to standard detail and product recommendations for the installation of the Dryvit Custom Brick products as of the date of publication of this document and is presented in good faith. Dryvit Systems, Inc. assumes no liability, expressed or implied, as to the architecture, engineering or workmanship of any project. To insure that you are using the latest, most complete information, contact Dryvit Systems, Inc., at

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