

CUSTOM BRICK™

Architectural Finish
For Use On Vertical Walls



Custom Brick Finish
Polymer System
Application Instructions
For Use On Vertical Walls

Recommended Tools For Installation of Custom Brick Finish-Polymer System

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

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. Refer to the appropriate application instructions to ensure that the system has been installed properly. **Note: NCB™ Grout and Custom Brick Finish takes the place of the finish material in the EIF system.**
 2. Sound concrete, masonry or stucco
 3. Interior application
 - a. Drywall, plaster, concrete or masonry

II Surface Preparation

- A. Exterior Insulation and Finish Systems
1. The reinforcing mesh must be totally embedded in the EIFS base coat.
 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 NCB Grout and 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 NCB Grout and Custom Brick Finish.
- B. Concrete, Masonry, Stucco
1. Concrete walls shall have cured a minimum of 28 days prior to application of the NCB or Revyvit Grout and Custom Brick Finish. Stucco walls shall cure a minimum of 7 days prior to application of the NCB or Revyvit Grout and 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 Grout and 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 over painted surfaces.**
- 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 prior to applying the Revyvit Grout and Custom Brick Finish.
 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 Revyvit® Grout and 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. **Do not skim over painted surfaces.**

III. Mixing Instructions

- A. Genesis
1. Open the bucket using 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. Grout

1. NCB Grout

- a. Open the bucket using a utility knife or lid-off.
- b. Thoroughly mix the factory prepared NCB Grout with a Wind-lock B-M1 mixing blade or equivalent, powered by a 13 mm (1/2 in) drill, 700-1000 RPM only. A small amount of clean potable water may be added to adjust workability. **Always add the same amount of water to each pail within a given lot.** Mix until a uniform workable consistency is attained.

2. Revyvit Grout (for use on interior drywall, plaster and masonry surfaces only)

- a. Open the bucket using a utility knife or lid-off.
- b. Thoroughly mix the Revyvit Grout with a Wind-lock B-M1 mixing blade or equivalent, powered by a 13 mm (1/2 in) drill, 700-1000 RPM only. A small amount of clean potable water may be added to adjust workability. **Always add the same amount of water to each pail within a given lot.** Mix until a uniform workable consistency is attained.

C. Custom Brick Finish

1. Open the bucket using a utility knife or lid-off.

2. Thoroughly mix the factory prepared Custom Brick Finish with a Wind-lock B-M1 mixing blade or equivalent, powered by a 13 mm (1/2 in) drill, 700-1000 RPM only. A small amount of clean potable water may be added to adjust workability. **Always add the same amount of water to each pail within a given lot.** Mix until a uniform workable consistency is attained.

D. Demandit® Shading Mixture

1. Open the bucket using a utility knife or lid-off.

2. Stir the Demandit Shading Mixture to a smooth homogeneous consistency. Avoid introducing air by over mixing.

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.

- 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. NCB Grout Application

- A. Air temperature for application of the NCB Grout must be 4 °C (40 °F) or higher, but less than 38 °C (100 °F) and must remain so for a minimum of 24 hours.

- B. Inspect and prepare the substrate as described in Sections I and II.

- C. Mix the NCB Grout as described in Section III.B.1.

- D. Using a stainless steel trowel apply the NCB Grout over the prepared substrate. Material shall completely cover the underlying substrate. Coverage should yield 18.6-24.2 m² (200-260 ft²).

- E. Allow the NCB Grout to thoroughly dry prior to adhering Custom Brick templates. The drying time of the NCB Grout is dependent upon the air temperature and relative humidity. Under average drying conditions, [21 °C (70 °F), 55% RH], the NCB Grout will dry in 24 hours.

VI. Revyvit Grout Application (for use on interior drywall, plaster and masonry surfaces only).

- A. Air and surface temperatures for application of the Revyvit Grout must be 7 °C (45 °F) or higher and must remain so for a minimum of 24 hours.

- B. Mix the Revyvit Grout as described in Section III.B.2

- C. Apply the Revyvit with a 13 mm (½ in.) to 16 mm (5/8 in.) nap roller and allow it to dry a minimum of 24 hours prior to adhering the Custom Brick templates.

VII. Custom Brick Template Application

- A. Prior to applying the template, remove any high or rough edges from the grout coat.

- B. Templates are available in a variety of patterns, which include brick, stone, tile, etc. Templates may also be custom designed to suit a particular application. **Note: The maximum template thickness to be used with the Custom Brick Finish-Polymer System is 1.8 mm (.070 in).**
- 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.**
- 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.**
- I. This chalk line becomes your **plumb line**.
- J. Prior to adhering 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 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.
- 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 the same day. **Do not leave templates uncoated overnight.**

VIII. Custom Brick Finish Application

- A. Inspect the template placement making sure that the desired pattern exists, they are level and plumb, 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 Finish as described in Section III.C.
- C. Using a flexible end (round) stainless steel trowel, apply the Custom Brick 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 Finish to completely dry prior to removing templates or shading.

IX. Shading, Template Removal and Touch-Up

- A. Dryvit Demandit is used to shade and highlight the Custom Brick Finish. Demandit is tintable to the color desired, and may be diluted as described with water to achieve desired effect.
 - 1. Shading procedures:
 - a. Wash - Wet (uniformly shades or adds tone to the Finish color)
 - 1) The Custom Brick Finish must be completely dry prior to shading.
 - 2) After tinting as desired, stir Demandit as described in Section III.D.
 - 3) Mix Demandit with water in ratio of 2:1 (two parts Demandit, one part water) to achieve proper viscosity.
 - 4) Dip a camel-back sponge into the prepared Demandit Shading Mixture, and sponge apply the material over the Custom Brick Finish as desired. **Note: A camel-back sponge is the only type recommended. CAUTION: Saturation of the sponge is not recommended since rundown will occur.**
 - b. Buff - Wet (provides contrasting highlights to existing color)
 - 1) The Custom Brick finish must be completely dry prior to highlighting.
 - 2) After tinting as desired, stir Demandit as described in Section III.D.

- 3) Mix Demandit with water in ratio of 10:1 (ten parts Demandit, one part water) to achieve proper viscosity.
- 4) Use a camel-back sponge or small paintbrush to apply the highlight color over Finish to achieve desired effect. **Note: A camel-back sponge is the only type recommended. CAUTION: Saturation of the sponge is not recommended since rundown will occur.**

B. Template Removal and Touch-Up

1. Carefully remove the templates, avoiding jagged edges. **CAUTION: Do not remove templates until Custom Brick Finish has totally dried and shading, if applicable, has been completed.**
2. Should any of the Custom Brick Finish material seep under the templates, use a 13 mm (1/2 in) edging tool to clean out the joint. Using NCB or Revyvit Grout, matching that originally used, touch-up with a small paintbrush.

DISCLAIMER

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Dryvit Systems, Inc.,
One Energy Way, P.O. Box 1014,
West Warwick, RI 02893
(401) 822-4100

Dryvit Systems, Inc.
One Energy Way
P.O. Box 1014
West Warwick, RI 02893
800-556-7752
www.dryvit.com

