

CEMENT BOARD MD FINISH SYSTEM™



**An Exterior Finish System Applied Over Exterior Cement Board
with a Secondary Weather Resistive Barrier and Moisture Drainage**

Cement Board MD Finish System Application Instructions

REFERENCE LIST OF DRYVIT BROCHURES AND PUBLICATIONS

Backstop® NT Texture DUK453

Backstop® NT Texture Application Instructions DUK177

Dryvit Grid tape™ DUK450

Backstop® NT Smooth DUK455

Backstop® NT Smooth Application Instructions DUK181

Prymit® DUK424

Reinforcing Meshes DUK413

Genesis® DUK417

Genesis® DM DUK452

NCB™ DUK402

Dryflex® DUK430

Color Prime™ DUK410

Primer with Sand™ DUK477

PMRB Finishes™ DUK490

Custom Brick™ DUK227

Demandit® DUK400

Revyvit® DUK415

Ameristone™ DUK434

TerraNeo™ DUK481

Limestone Finish™ DUK472

Stone Mist® DUK420

SealClear™ DUK426

Outsulation System Application Instructions DUK204.

Cement Board MD Finish System Details DUK190

APPLICATION INSTRUCTIONS**1.0 EXAMINATION**

- A. Prior to installation of the Cement Board MD Finish System, it is the contractor's responsibility to ensure that:
1. The sheathing substrate is of a specification approved by Dryvit UK Limited.
 2. The sheathing substrate and the exterior cement board surface are free of dust, loose particles, oil and other conditions that would affect the adhesion or installation of Cement Board MD Finish System materials.
 3. All fasteners are corrosion resistant and installed in a manner as to be flush with the surface of the cement board.
 4. All accessories including corner aids, control and expansion joints, casing beads, etc. are properly fastened and positioned according to contract drawings, manufacturer requirements and local building code requirements.
 5. The weather-resistive barrier is of a proper type and, if sheet form, has been installed in a weatherboard fashion in accordance with building code and manufacturer's requirements. If Dryvit Backstop NT is to be used then it should be installed to manufacturer requirements as outlined in 3.0 B. and DUK data sheets.
 6. Doors, windows, decks, and other openings and penetrations have been properly flashed in accordance with manufacturer requirements, building code and contract documents.
 7. Metal roof flashing has been installed in accordance with Asphalt Roofing Manufacturers Association Standards.
 8. The cement board surface is flat within 6.4 mm in 3 m.
 9. The contractor shall notify the general contractor and/or owner and/or architect of all discrepancies. Do not proceed until unsatisfactory conditions are resolved.

2.0 PREPARATION

- A. The Cement Board MD Finish System materials shall be protected by permanent or temporary means from weather and other damage prior to, during, and following application, until dry.
- B. Protect adjoining work and property.

3.0 INSTALLATION

- A. Mixing:
1. Backstop NT: Due to shipping and storage, there may be some settling of materials. Prior to using, mix the material to a smooth homogeneous consistency.
 2. Dryvit base coat materials shall be mixed in accordance with current Dryvit printed product sheets.
 - a. Dryvit Genesis shall be mixed in a 1:1 ratio with fresh, lump-free BS EN 197 – 1 : 2000 CEM1 Portland cement. Either white or grey cement is acceptable. Add the cement slowly to avoid lump formation and mix thoroughly. The mix is allowed to stand for 5 minutes and then remixed to break the set. Refer to Genesis product sheet DUK417 for complete instructions.
 - b. Dryvit Genesis DM shall be mixed with water to a uniform consistency, allowed to stand for 10 minutes and then remixed to break the set. Refer to Genesis DM product sheet DUK452 for complete instructions.
 3. Dryvit Finishes:
 - a. Dryvit Finishes are factory blended and require no additives. Mix each pail to a uniform consistency adding a small amount of water as needed to adjust workability. Ensure that the same amount of water is added to each pail of the same colour.
 - b. Refer to the product literature for the specific finish being used for more complete instructions.
- B. Application of Backstop NT:
1. Prepare the substrate sheathing so as to be free of foreign materials such as oil, dust, dirt, paint, wax, water repellents, moisture, frost and any other materials that may inhibit adhesion.
 2. Backstop NT can be applied using a roller, trowel, or spray equipment (with backrolling) over the approved substrates. Refer to Backstop NT – Texture Application Instructions, DUK177 or Backstop NT – Smooth Application Instructions, DUK181.
- C. Installation of timber batons:
1. Secure the timber baton to the substrate using corrosion resistant screws through the secondary weather resistive barrier and into the substrate or framing. The spacer is 25 mm thick by 50 mm wide and is installed in continuous vertical strips spaced a maximum of 400 – 600 mm on centre installed over each framing member and depending on cement board specification. Additionally, install the baton flush with the vertical edge of all system terminations and changes in wall direction. If alternative spacers are used, follow manufacturers' instructions.
- D. Install the exterior cement board in accordance with manufacturer's instructions and project requirements.
1. Align sheathing joints with the timber baton and install fasteners through the batons or other spacers as needed.
 2. Do not align joints with corners of wall penetrations.
 3. Exterior cement board joints shall be offset from sheathing board substrate joints.
- E. Foam shape application (if applicable)
1. Adhere EPS shape to exterior cement board prior to applying the base coat.
 2. Install in accordance with current Dryvit printed Outsulation System Application Instructions DUK204.
- F. Application of Base Coat:
1. Apply Genesis or Genesis DM over all exterior cement board joints and inside and outside corners and embed a 241 mm wide strip of Dryvit Detail Reinforcing Mesh into the wet base coat mixture.
 2. Allow the base coat mixture to take up until firm to the touch.
 3. Apply a continuous layer of Genesis or Genesis DM over the exterior cement board face and embed a layer of Dryvit Standard Reinforcing Mesh into the wet base coat mixture such that the entire surface of the board is covered. The reinforced base coat shall be applied to a uniform thickness of approximately 1.6 mm and be sufficient to embed the reinforcing mesh.
 4. All edges of reinforcing mesh shall be lapped a minimum of 64 mm.

G. Application of Finishes:

1. Allow the Genesis or Genesis DM to cure a minimum of 24 hours until completely dry.
2. Ensure that the surface of the wall is clean, dry and free of any contaminants that may impair the adhesion of surface finish.
3. Dryvit finishes may be either spray or trowel applied.
4. Always apply the finish to a natural break to avoid visible cold joints.
5. Always work the shady side of the wall or provide shading to avoid application in direct sunlight.
6. Dryvit finishes shall be applied in accordance with published Dryvit instructions for the specific finish being used. Refer to the published product sheet for the specified finish.

4.0 FIELD QUALITY CONTROL

- A. The contractor shall be responsible for the proper application of the Cement Board MD Finish System materials.
- B. Dryvit assumes no responsibility for on-site inspections or application of its products.
- C. Independent third party inspection is required to verify installation according to code and contract documents. As a minimum, it is recommended that inspection items include installation of the weather-resistive barrier, flashings, and accessories, Cement Board MD Finish System materials and sealants.

5.0 CLEANING

- A. All excess Cement Board MD Finish System materials shall be removed from the job site by the contractor in accordance with contract provisions.
- B. All surrounding areas, where the Cement Board MD Finish System has been applied, shall be left free of debris and foreign substances resulting from the contractor's work.

6.0 PROTECTION

- A. The system shall be protected from weather and other damage until permanent protection in the form of flashings, sealants, etc. are installed.

CAUTIONS AND LIMITATIONS

- Use is limited to applications on projects not exceeding 3 stories.
- Minor cracking is possible in the finished exterior surface.
- Non-insulated claddings may exhibit shadowing (ghosting) of fasteners and or framing members due to varying exterior surface temperatures. Critical light will tend to exaggerate construction irregularities when coatings are applied directly to sheathing in framed construction.
- Base coat material shall not be used to level wall surface imperfections.
- Consult exterior cement board manufacturer requirements for stud spacing, fastening requirements and other design and installation considerations.

DISCLAIMER

Information contained in this specification conforms to standard detail and product recommendations for the installation of the Cement Board MD Finish System products as of the date of publication of this document and is presented in good faith. Dryvit UK Ltd. 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:

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