

# Substrates

## DS156



### PRODUCT DESCRIPTION

Dryvit Outsulation® systems are exceptional exterior insulation and finish systems for new construction as well as for retrofit of older existing buildings. There are many construction materials, which can be utilized as effective substrates. Following is a list of recommended substrates and recommendations for their use. If a substrate is encountered which is not on this list, contact Dryvit Systems, Inc. or your Dryvit distributor for recommendations.

### TEST SECTION

If there is any doubt concerning coatings or sealers that may have been applied to a substrate, a test section should be made and evaluated. A section of approximately one foot square of the specified Outsulation system should be applied to the substrate in doubt. The section should be allowed to dry for a minimum of three days and then removed. A successful test would be indicated by failure within the insulation board. There should not be delamination from the substrate.

**TEST SECTIONS SHOULD BE DONE WITH A REPRESENTATIVE AUTHORIZED BY DRYVIT SYSTEMS, INC. PRESENT. CONTACT DRYVIT OR YOUR DISTRIBUTOR.**

Substrates	Recommendation
Exterior Grade Gypsum Sheathing (Also with Type X Core)	Shall conform to ASTM C 1396 (formerly ASTM C 79). At the time of application, paper must be firmly bonded to the core. <b>NOTE: Minimum thickness of sheathing shall be as follows: for 16 in. o.c. stud spacing, 1/2 in (12.7 mm); for 24 in. o.c. stud spacing, 5/8 in (16 mm).</b>
Poured-in-Place Concrete Precast Concrete Concrete Block Brick Terra Cotta Stucco	<ul style="list-style-type: none"><li>• There shall be no dimensional variations in excess of plus or minus 1/4 in (6 mm) in a 4 ft (1.2 m) radius.</li><li>• Concrete shall be free from releasing agents, oils or paraffin's. If there is any doubt concerning the concrete, it should be either acid washed or a test section of a Dryvit cementitious adhesive and insulation board shall be applied.</li><li>• New concrete block shall be clean and plumb with joints struck flush.</li><li>• Stucco should be unpainted and should be sound and washed to remove dirt and loose material from surface.</li><li>• Existing masonry surfaces shall be cleaned with an appropriate masonry cleaner and thoroughly flushed with water.</li></ul>
Unpainted Exterior Grade Plywood	Shall be no less than 1/2 in (12.7 mm) thick, minimum 4-ply APA exposure 1 or exterior grade C-D or better, with C or better side in contact with ADEPS® adhesive. American Plywood Association recommendations must be followed for spacing and installation.
Exterior Grade Fire Retardant Treated Plywood	Shall have a flame spread rating of 25 or less when tested in accordance with ASTM E 84 and tested through ASTM D 2898. Each piece shall bear the UL classified mark indicating the extended ASTM E 84 test. Installation shall be in accordance with American Wood Preservers Association and local codes then coated with a water-resistive barrier prior to Dryvit system application.
Latex - Oil-Based Painted Surfaces Sound Glazed Brick or Tile	Shall be free of chalk and blistering, peeling or scaling paint. Remove gloss by sanding. Apply Prymit®, a primer/adhesion promoter, before installing insulation board. Test for adhesion per Dryvit's Prymit product sheet, DS424. If adhesion is not acceptable, system must be mechanically fastened.
Oriented Strand Board (OSB)	Shall be nominal 1/2 in (12.7 mm) thick, APA Exposure 1 rated.
Painted Masonry Painted Plywood	Utilize the Wind-lock™ or ITW Buildex mechanical fastener or equal following Dryvit Systems, Inc.'s guidelines as noted in Application Bulletin No. 00-04 (supersedes 88-13).
2.5 and 3.4 Self-Furring Galvanized Metal Lath	For use as a retrofit substrate over painted surfaces and areas where the condition of a surface may not allow direct adhesive application. Dryvit cementitious adhesive mixture shall be applied to the insulation board using the ribbon and dab method.
Glass Mat Gypsum Sheathing	Shall be sound, dry, clean and free of all foreign materials. Shall contain factory-applied alkali-resistant coating. <b>NOTE: Minimum thickness of sheathing shall be as follows: for 16 in. o.c. stud spacing, 1/2 in (12.7 mm); for 24 in. o.c. stud spacing, 5/8 in (16 mm).</b>
Calcium Silicate Panel	Color Prime™ is required for application over calcium silicate panels. A 15-minute thermal barrier must be addressed as required by model building codes.
Exterior Cement Board	Ensure deflection criteria of framing meets guidelines established by sheathing manufacturer.

Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of Dryvit Systems, Inc. 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 ensure that you are using the latest, most complete information, contact Dryvit Systems, Inc.

For more information on [Dryvit Systems](#) or [Continuous Insulation](#), visit these links.

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