

SUBSTRATES

DS156

The Dryvit Outsulation® System is an exceptional exterior insulation and finish system 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.

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Exterior Grade Gypsum Sheathing (Also with Type X Core)

RECOMMENDATION

Shall conform to Federal Specification SS-L-30D, Type II, Grade W, Class 2; ASTM-C-79. At the time of application, paper must be firmly bonded to the core. **NOTE: Minimum thicknesses of sheathing shall be as follows: for 16 in. o.c. stud spacing, 13 mm (½ in); for 24 in. o.c. stud spacing, 16 mm (5/8 in).**

Poured-in-Place Concrete

There shall be no dimensional variations in excess of plus or minus 6 mm (¼ in) in a 1.2 m (4 ft) radius.

Precast Concrete

Concrete Block

Concrete shall be free from releasing agents, oils or parafins. If there is any doubt concerning the concrete, it should be either acid washed or a test section of Primus and insulation board shall be applied.

Brick

Terra Cotta

Stucco

New concrete block shall be clean and plumb with joints stuck flush.

Stucco should be unpainted and should be sound and washed to remove dirt and loose material from surface.

Existing masonry surfaces shall be cleaned with an appropriate masonry cleaner and thoroughly flushed with water

Unpainted Exterior Grade Plywood

Shall be no less than 13 mm (½ in) 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.

Latex and 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.

Oriented Strand Board (OSB)

Shall be nominal 13 mm (½ in) thick, APA Exposure 1 rated.

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Painted Masonry	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 (supercedes 88-13).
Painted Plywood	
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. Primus mixture shall be applied to the insulation board using the ribbon and dab method.
Silicone Treated Gypsum Core Sheathing Surfaced with Inorganic Fiberglass Mats	Shall be sound, dry, clean and free of all foreign materials. Shall contain factory-applied alkali-resistant coating.
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.

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 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.

Information contained in this bulletin 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.

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