

Manufacturer

Georgia-Pacific Gypsum
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Technical Service Hotline: 1-800-225-6119

Description

DensDefy™ Liquid Barrier System is a fluid-applied air and water-resistive barrier system for use on exterior gypsum sheathing, wood sheathing, CMU and concrete walls. The DensDefy Liquid Barrier System consists of:

- (a) DensDefy® Liquid Flashing to treat fasteners, sheathing joints, penetration openings and transitions;
- (b) DensDefy™ Liquid Barrier a fluid-applied single component Silyl-Terminated Polymer (STP) air and water-resistive barrier applied by roller or with spray equipment over many common substrates;
- (c) Optional DensDefy® Transition Membrane to treat transitions and rough openings.

The attributes of the DensDefy Liquid Barrier System have been verified as conforming to the requirements of 2021, 2018, 2015 and 2009 International Building Code® (IBC) 2021, 2018, 2015, 2012 and 2009 International Residential Code® (IRC) 2021, 2018, 2015 and 2009 International Energy Conservation Code® (IECC) 2021 Los Angeles Department of Building and Safety (LADBS) LABC and LARC for Water-resistive barrier, Air barrier material, Surface-burning characteristics.

The DensDefy Liquid Barrier System has been evaluated as an air-barrier by the Air Barrier Association of America (ABAA).

The DensDefy Liquid Barrier System is NFPA 285 compliant with multiple assemblies that hold an ICC-ES Evaluation Report including Brick, Stucco, Metal Panel, and other claddings

Primary Uses

The DensDefy Liquid Barrier System is used as an alternative to the water-resistive barrier specified in 2021 and 2018 IBC Section 1403.2 (2015 and 2009 IBC Section 1404.2) and IRC Section R703.2 when installed over substrates as described in ICC-ES ESR 4708 in exterior walls of any construction type. The system also may be used as an air barrier material in accordance with IRC Section N1102.4 and 2021, 2018 and 2015 IECC Sections C402.5 and R402.4 (2009 IECC Sections 402.4 and 502.4). The DensDefy Liquid Flashing component of the DensDefy Liquid Barrier System may be used as a flashing in accordance with 2021, 2018 and 2015 IRC Section 703.4, when installed in accordance with Section 4.4 of ICC-ES ESR 4708.

DensDefy Liquid Barrier System helps keep bulk water out, but remains permeable, which allows water vapor to escape and promote drying. The DensDefy Liquid Barrier System helps prevent air infiltration for a more energy efficient structure. DensDefy Liquid Barrier can be applied to dry or damp substrates to help eliminate weather delays and accelerate "dry-in" of new buildings. The DensDefy Liquid Barrier System may be fully exposed to UV and normal weather conditions for up to 12 months after installation.

Limitations

The following recommendations and limitations are important to ensure the proper use and benefits of DensDefy Liquid Barrier System. Failure to strictly

adhere to such recommendations and limitations may void the limited warranty provided by Georgia-Pacific Gypsum for such products. For details, please go to (<https://buildgp.com/resources>)

DensDefy Liquid Barrier is not intended for use as a liquid flashing membrane. DensDefy Liquid Flashing should instead be used as a liquid flashing membrane.

Not for use in place of appropriate through wall flashing material.

Do not use DensDefy Liquid Barrier or DensDefy flashing accessories below grade or in locations that may be continuously immersed in water.

DensDefy products are not intended for permanent exposure. Cover within 12 months after installation.

Product may be applied to frost-free substrates at temperatures as low as 25°F (-4°C). Product will not begin to cure until temps reach 32°F (0°C) and remain above freezing. Storing product in a heated environment prior to use and misting applied material with warm, fresh water helps in these conditions.

The DensDefy Liquid Barrier System is resistant to normal weather conditions. It is not intended for use as a cladding system, long-term outdoor exposure, for immersion in water, or exposure to cascading water from an unfinished roof or floor. Water should always be directed away from the DensDefy Liquid Barrier System.

Do not apply to contaminated or frost covered surfaces. Treated lumber must be dry and solvent wiped with Isopropyl Alcohol prior to application of DensDefy products.

The DensDefy Liquid Barrier System is not for use with Insulated Concrete Forms.

Avoid conditions that will create moisture in the air and condensation within the exterior walls. This is especially important during periods when the exterior and interior temperature differentials can create a condensation point within the exterior wall. The use of forced air heaters creates volumes of water which, when not properly vented, can condense on building materials. The use of heaters and any resulting damage is not the responsibility of Georgia-Pacific Gypsum. Consult heater manufacturer for proper use and ventilation.

In wall covering systems requiring multiple layers of water resistive barriers, DensDefy Liquid Barrier is intended to replace only the first layer over the wall substrate.

Avoid the use of solvent based primers, adhesives or accessory products over DensDefy products.

Exterior wall design details including, but not limited to, cladding attachments, control joints, material transition details, window and door integration, per the project specification must be properly installed.

Roofing systems must be capped and sealed and top of walls protected from water intrusion both before and after DensDefy Liquid Barrier installation. Water intrusion may interfere with bonding of air barrier waterproofing materials and/or detrimentally impact the performance of such materials.

Georgia-Pacific Building Products does not warrant and is not responsible or liable for the performance of any cladding, or cladding system that is attached or adhered to the DensDefy Liquid Barrier System. The compatibility of any cladding system is the responsibility of the cladding manufacturer or design authority.

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Submittal Approvals

Job Name _____

Contractor _____

Date _____

Technical Data

The DensDefy™ Liquid Barrier System is a continuous water resistive barrier, and air barrier system when joints, penetrations, openings, and transitions are properly sealed with DensDefy Liquid Flashing.

DensDefy® Liquid Barrier	
Form	Viscous liquid, mild odor, gold color
Specific Gravity	1.26 – 1.33
Weight, gallon	10.5 – 11.5 lbs.
Total solids	Approx. 99%
VOC content	<30 g/L
Shelf life	1 year in tightly sealed, unopened container

Cured Properties	
Hardness, Shore A	19 – 23
Tensile Strength	>90 psi
Elongation at Break	>400% (ASTM D 412)
Transfer Free Time	< 1 hour (at room temperature and 50% relative humidity)
Water Vapor Transmission	10 Perms (ASTM E96 Method A) 14 Perms (ASTM E96 Method B)
Surface Burning Characteristics	Class A (ASTM E84) Flame Spread = 25 Smoke Developed = 10

The DensDefy Liquid Barrier System was tested in accordance with ICC-ES Acceptance Criteria (AC) 212, Acceptance Criteria for Water-Resistive Coatings used as Water-Resistive Barriers over Exterior Sheathing.

Handling and Use – WARNING

Refer to the SDS for instructions on safe handling and use of the product. The SDS can be found here: <https://buildgp.com/resources/>

Product Data

See physical properties chart below. The DensDefy Liquid Barrier System holds an ICC-ES Evaluation Report for use as both a water resistive barrier and air barrier.

For a copy of the Evaluation Report see www.icc-es.org.

The following are approved flashing/transition accessories for the DensDefy Liquid Barrier System:

DensDefy® Liquid Flashing

DensDefy® Transition Membrane



DISTRIBUTORS

U.S.A. GP Gypsum LLC
 Canada Georgia-Pacific Canada LP

SALES INFORMATION AND ORDER PLACEMENT

U.S.A. West: **1-800-824-7503**
 Midwest: **1-800-876-4746**
 South Central: **1-800-231-6060**
 Southeast: **1-800-327-2344**
 Northeast: **1-800-947-4497**

CANADA Canada Toll Free: **1-800-387-6823**
 Quebec Toll Free: **1-800-361-0486**

TECHNICAL INFORMATION

U.S.A. and Canada: **1-800-225-6119**, www.gpgypsum.com

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WARRANTIES, REMEDIES AND TERMS OF SALE For current warranty information for this product, please go to www.buildgp.com/warranties. All sales of this product by Georgia-Pacific are subject to our Terms of Sale available at www.buildgp.com/tc.

UPDATES AND CURRENT INFORMATION The information in this document may change without notice. Visit our website at www.gpgypsum.com for updates and current information.

CAUTION For product fire, safety and use information, go to www.buildgp.com/safetyinfo or call **1-800-225-6119**.