



## Consumer Solutions

# DOWSIL™ DefendAir 200 Silicone Liquid Applied Air and Weather Barrier



The only water-based silicone air barrier complemented by a fully compatible system

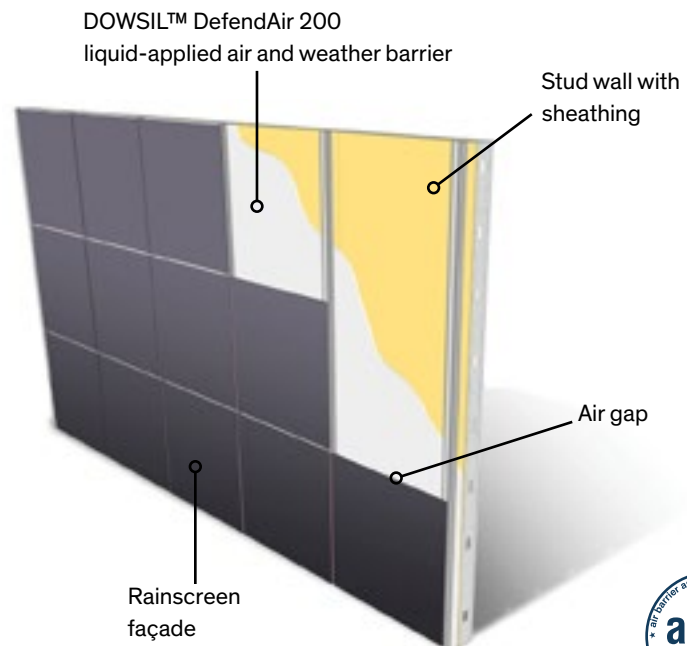
### Features/Benefits

- ABAA evaluated
- Airtight performance exceeding industry standards
- Long-term UV resistance
- Passes NFPA 285 assembly testing
- Complete offering of compatible accessory materials
- Vapor-permeable and breathable
- One-coat spray application; may also be roller applied
- Water-based, low-VOC formulation ideal for green constructions
- Can be applied at temperatures as low as 20°F (-7°C)
- Primerless adhesion to most construction substrates

Uncontrolled air leakage can be a significant contributor to increased heating and cooling costs. DOWSIL™ DefendAir 200 helps reduce energy consumption, providing fast, easy and effective protection from air infiltration and water penetration.

DOWSIL™ DefendAir 200 is a 100% silicone liquid-applied air and water barrier. Long-term UV resistance means no performance issues from extended sun exposure – whether due to unanticipated construction delays prior to cladding installation or to normal exposure in rainscreen applications.

The vapor-permeable, one-component, water-based coating dries to form a flexible membrane that is impervious to water but has the ability to “breathe,” allowing water vapor to escape from inside the substrate.



DOWSIL™ DefendAir 200 is a key component of a building weather protection system to prevent air and water infiltration.



## Typical Properties<sup>(1)</sup>

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow sales representative before writing specifications on this product.

Test <sup>(2)</sup>	Property	Unit	Result
ASTM E2178	Air permeance	cfm/ft <sup>2</sup>	< 0.0003 at 1.57 psf
CAN/ULC S741		L/(s-m <sup>2</sup> )	< 0.0016 at 75 Pa
ASTM E2357	Assembly air leakage	L/(s-m <sup>2</sup> )	< 0.0019 at 75 Pa before and after conditioning (Pass)
CAN/ULC S742			
ASTM E96	Water vapor permeance	US Perms	
	Desiccant (Method A)	(ng/(m <sup>2</sup> -Pa-s))	10.1 (578)
	Water (Method B)		26.6 (1,521)
ASTM E84	Flame spread		5
	Smoke developed		115
			NFPA Class A, UBC Class 1
ASTM D4541	Pull adhesion	psi	
	Concrete		> 120
	Fiberglass mat gypsum sheathing		> 40 (substrate failure)
ASTM D412	Tensile strength	psi (MPa)	> 200 (1.38)
ASTM D412	Elongation	%	650
UV Exposure/Resistance	5,000 hour exposure: 8 hour UV at 60°C – 4 hour water at 50°C, UVA 340 bulbs		No change
ASTM D2243	Freeze-thaw resistance		No change

<sup>(1)</sup>Values are based on 15 mil dry-film thickness.

<sup>(2)</sup>ASTM: American Society of Testing and Materials.

## Contact us

Dow is collaborating with industry professionals around the world to develop solutions to improve the energy efficiency of buildings, reduce the eco-footprint of construction materials, and improve the health and safety of building occupants. Learn more about DOWSIL™ DefendAir 200 and our full range of High Performance Building solutions, including service and support, at **BuildABetterBarrier.com**.

Dow has sales offices, manufacturing sites and science and technology laboratories around the globe. Learn more about Dow's full range of High Performance Building solutions by visiting us online at **consumer.dow.com/construction**.

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