

# SOPRASEAL<sup>®</sup> LM 204 VP

Vapor Permeable Air Barrier



ACCESSORIES

WALLS

PRODUCT DATA SHEET PD10299 - REV.220712

## QUICK FACTS:

UNIT SIZE Gal	COLOR	SOLIDS %	QTY / PALLET	SHELF-LIFE months	USES
5 (19 L)	Blue	98	36 Pails	12	Walls
50 (189 L)			4 Drums		

## PRODUCT NUMBERS & PACKAGING:

- A506 - **SOPRASEAL LM 204 VP** - 5 gal (19 L) Pail
- A507 - **SOPRASEAL LM 204 VP** - 55 gal (189 L) Drum

## DESCRIPTION & FEATURES:

**SOPRASEAL LM 204 VP** is a one-component, 98% solids, liquid applied, non-flammable, vapor permeable air barrier membrane used in wall construction. **SOPRASEAL LM 204 VP** utilizes STPE polymer technology for excellent freeze-thaw characteristics and superior curing in low humidity and temperatures, and on damp substrates.

## USES:

**SOPRASEAL LM 204 VP** provides air and moisture mitigation protection behind wall claddings such as brick, siding, metal panels, EIFS, and stucco, and is applied to exterior grade gypsum sheathing or wood, as well as CMU and poured concrete walls.

## FEATURES & BENEFITS:

- Can be roller or spray applied
- 98% solids material
- Low VOC content
- Rain resistant in less than 30 minutes
- Adheres to damp concrete
- Up to 180 days of jobsite exposure

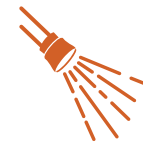
## APPLICATION & SERVICE TEMPERATURES:

- **SOPRASEAL LM 204 VP** can be applied at temperatures of 25°F (-4°C) or above.
- The material should be kept at a minimum temperature of 40°F (4°C) but preferably 70°F (21°C) during the application.
- The minimum curing temperature is also 25°F (-4°C) and must be maintained for the length of curing process.
- UV exposure should not exceed 180 days.
- The service temperature range is -40°F to 200°F (-40°C to 149°C).

## APPLICATION:



ROLLER



SPRAY

**SOPRASEAL LM 204 VP** is typically applied using a roller or spray equipment, and at approximately a 20mil wet film thickness. Refer to **SOPRASEAL LM 204 VP** application guidelines and our Wall Air Barrier Technical Manual for complete details

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## APPROVALS & TESTING:

- ICC-ES AC212, Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers over Exterior Sheathing.
- ABAA evaluated and listed air barrier
- NFPA 285 tested assemblies



## STORAGE & HANDLING:

Store pails and drums on end and maintain in an upright position to prevent damage. Store in a clean dry location and cover as necessary to protect from environmental damage such as extreme cold, heat, or moisture and protect from freezing. Monitor varying environmental conditions during storage & handling, and application of the product.

## SHELF LIFE:

**SOPRASEAL LM 204 VP** has a shelf life of 12 months from the date of manufacture when properly stored in original packaging.

## LIMITATION:

- Not for use in below grade applications
- Do not apply to contaminated substrates or frost covered surfaces.
- Not intended for permanent UV exposure

## CURING & DRY TIME:

**SOPRASEAL LM 204 VP** cures in 1 to 2 hours when applied at 20 mils at 70°F (21°C) and 50% relative humidity. Cure time varies based on temperature, humidity and applied thickness. Additional lifts of material and tie-ins should be applied within 72 hours of first application.

## CLEAN UP:

Before material cures, clean all tools and equipment with xylene or similar solvent. Cured material will need to be mechanically cut or abraded. Clean skin with warm soapy water and a medium bristled brush as needed.

## WARRANTY:

Please refer to [www.SOPREMA.us](http://www.SOPREMA.us) for the SOPREMA Standard Warranty or contact us at 800.356.3521 for more information.

## EQUIPMENT & TOOLS:

**SOPRASEAL<sup>®</sup> LM 204 VP** application guidelines and our Wall Air Barrier Technical Manual for recommended spray pump equipment and other tools.

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## TECHNICAL INFORMATION & TESTING:

PHYSICAL PROPERTIES		
PROPERTY	VALUE	TEST METHOD
<b>Air leakage rate of material</b> , cfm/ft <sup>2</sup> (L/s·m <sup>2</sup> ) @ ΔP=1.57psf (75 Pa)	0.00034 (0.0017)	ASTM E2178
<b>Air leakage rate of assembly</b> , cfm/ft <sup>2</sup> (L/s·m <sup>2</sup> ) Specimen 1: opaque wall; after wind conditioning @ ΔP= 75Pa Specimen 2: penetration wall; at reference air leakage	0.0004 (0.002) 0.0004 (0.002)	ASTM E2357
<b>Resistance to hydrostatic head pressure</b>	Pass	AATCC 127 (2008)
<b>Fastener seal ability</b>	Pass	ASTM D1970
<b>Pull adhesion</b> , psi (kN/m <sup>2</sup> ) DensGlass <sup>®</sup> CMU Concrete Exterior grade plywood	67 (462) 134 (924) 162 (1117) 177 (1220)	ASTM D4541 (Method E)
<b>Crack bridging</b>	No cracking, splitting, or pinholes	ASTM C1305-08
<b>Resistance to UV exposure</b>	Pass	ICC-ES AC212 (2018) Section 4.8
<b>Moisture vapor permeance @ 20mil DFT</b> , perms (ng/s·m <sup>2</sup> ·Pa)	15.8 (902) desiccant method 24.2 (1900) water method	ASTM E96
<b>Surface Burning</b> , Flame Spread Smoke Developed	25 (Class A) 0 (Class A)	ASTM E84 (UL 723)
<b>Wall assembly fire testing</b>	Approved in various NFPA 285 tested wall assemblies	NFPA 285
<b>ICC-ES AC212 Acceptance Criteria</b>	Pass	ICC-ES AC212 (2018)
<b>Tensile Strength</b> , lb./in <sup>2</sup> (kN/m <sup>2</sup> )	185 (1276)	ASTM D412, Die C
<b>Elongation</b> , %	296	ASTM D412, Die C

\* Data is represented by average values, unless noted otherwise.