



WATERPROOFING

APPLICATIONS

WALLS

SOPRASEAL LM 204 VP

TECHNICAL DATA SHEET 200526SCANE

(supersedes -)

DESCRIPTION

SOPRASEAL LM 204 VP is a single component, liquid applied, vapor permeable air barrier membrane which is based on hydroreactive elastomers. Used in wall constructions, this technology allows continuous and elastic adhesion to the substrate. The high solid content means that this product does not shrink during its curing process. The wet film thickness is therefore equivalent to the dry film thickness. This material is a fire resistant vapor permeable air barrier which provides protection behind wall claddings such as brick, siding, metal panels, EIFS and stucco. Utilization of a drainage plane is required for stucco cladding.

RECOMMENDED SUBSTRATES

This product can be used on most building surfaces, such as masonry, concrete, wood and gypsum. SOPRASEAL LM 204 VP can also be used with SOPRASEAL STICK FLASHPRO HT and SOPRASEAL LIQUID FLASHING at openings.

SURFACE PREPARATION

The substrate should be clean, sound, dry and free of loose materials, grease and any contaminants, which may compromise the performance of the product. Apply a thick bead of SOPRASEAL LIQUID FLASHING into all voids in block or concrete, joints in sheathing, and/or plywood substrates. Use a trowel to apply the material into the gap or void. When treating sheathing joints ensure that a minimum of 1,5 mm (60 mils) is obtained. Create a smooth monolithic bead that will prepare the substrate to apply SOPRASEAL LM 204 VP which will overlap a minimum of 1 in. on either side of the joint. Once the material has been given the opportunity to develop a skin (cure time will be dependent on temperature and humidity levels) application of the SOPRASEAL LM 204 VP can begin.

APPLICATION

The most effective application method for SOPRASEAL LM 204 VP utilizes spray equipment, but a roller or a paint brush may be used. When spraying, make sure to keep the gun at an angle of about 90° in relation to the substrate. Apply SOPRASEAL LM 204 VP to the desired thickness directly to the prepared substrate. Applications that require greater thickness may justify two coats to allow proper attachment of the material. Once the application is complete, inspect the wall for any areas that need attention. Apply additional SOPRASEAL LM 204 VP in these areas if needed. Drying time will vary depending on ambient and substrate temperature, humidity and the ability of the substrate to absorb water.

Minimum ambient air temperature: -4 °C (25 °F).

COVERAGE RATES

Dry Film Thickness	Coverage m ² /L (ft ² /gal)
0,50 mm (20 mils)*	1,91 - 1,98 (78-80)
0,75 mm (30 mils)*	1,30 - 1,36 (52-54)
1,00 mm (40 mils)*	0,95 - 0,98 (39-40)

(All values are nominal)

Coverage rates are approximative and may vary due to the application technique and substrates.

* Use a wet film gauge to confirm the wet film thickness.



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LIMITATION

- Do not apply **SOPRASEAL LM 204 VP** at ambient temperatures below -4 °C (25 °F). The material should be kept at a minimum temperature of 4 °C (40 °F) during application.
- The minimum curing temperature is -4 °C (25 °F) and it must be maintained for the length of curing process.
- Do not use **SOPRASEAL LM 204 VP** for below grade applications or on surfaces subject to water immersion.
- UV light exposure should not exceed 180 days.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

PROPERTIES

Properties	Standards	SOPRASEAL LM 204 VP
Air Leakage Rating @ 75 Pa: <u>Specimen 1</u> (Opaque Wall) <u>Specimen 2</u> (Penetration Wall)	ASTM E2357	0.0020 L/s•m ² 0.0018 L/s•m ²
Air permeability @ 75 Pa	ASTM E2178	0.0004 L/s•m ²
Water resistance	AATCC 127	Pass
Fastener sealability	ASTM D1970	Pass
Pull adhesion, kN/m ² (psi) Adhesion to CMU Adhesion to DensGlass Adhesion to concrete Adhesion to plywood	ASTM D4541 (Method E)	924 (134) 462 (67) 1117 (162) 1220 (177)
Crack bridging	ASTM C1305	Pass
Moisture vapor permeance, ng/Pa•s•m ² (perms) @ 40 mils @ 30 mils @ 20 mils	Method A Method B Method A Method B Method A Method B	601 (10.5) 950 (16.6) 902 (15.8) 1425 (24.9) 1202 (21.0) 1900 (33.2)
Tensile Strength, kN/m ² (lb/in ²) Elongation, %	ASTM D412, Die C	1276 (185) 296
Surface Burning @ 20 mils	UL 753 Meets Class A	Flame Spread Index - 25 Smoke Development Index - 0

(All values are nominal)



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PACKAGING

Specifications	SOPRASEAL LM 204 VP
Colour	Blue
Solids	98 %
Volume	19 L (5 US gal) 189 L (50 US gal)*

(All values are nominal)

* Product available on special order only.

STORAGE AND HANDLING

Shelf life: Approximately 24 months, properly stored in original unopened containers. Store materials at temperatures above 4 °C (40 °F) at all times. Protect from extreme heat and direct sunlight.

FOR MORE INFORMATION, REFER TO INSTRUCTIONS ON THE CONTAINER LABEL AND RELEVANT SAFETY DATA SHEET (SDS).



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