

SOPRASEAL®

LM 203

SOPRASEAL® LM 203
PRODUCT # A502

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

SOPRASEAL LM 203 is a one-component spray applied non-permeable air barrier membrane used in wall construction. SOPRASEAL LM 203 is a water-based, ultra low VOC liquid product composed of a modified rubber formulation for elongation. This non-flammable, non-permeable air barrier provides moisture protection behind wall claddings such as brick, siding, metal panels, EIFS and stucco. Utilization of a slipsheet is required for stucco cladding.

STORAGE & HANDLING

Product must be stored indoors in a cool, dry place protected from freezing. Store materials at temperatures about 40°F (4°C). At the job site, protect the packaged product from extreme heat and direct sunlight. SOPRASEAL LM 203 has a shelf life of 2 years from the date of manufacture when properly stored in original packaging.

APPLICATION

To apply SOPRASEAL LM 203 mix the product until thoroughly blended. To apply SOPRASEAL LM 203 at temperatures below 40°F (4°C) but above 25°F (-4°C), blend with one quart container of SOPRASEAL LT Additive. Use a ¾" (19 mm) nap roller, paint brush or spray equipment to apply. Please refer to SOPREMA specifications and installation instructions for additional application guidelines prior to use.



APPLICATION



SPRAY APPLIED



BRUSH



ROLLER

QUICK FACTS

COLOR	SOLIDS	PAILS/PALLET	VOLUME (GAL)
Grey	74%	36	5 (19 L)

AVERAGE COVERAGE

SUBSTRATE	PER PAIL (ft²)
ASTM C1177 type sheathing	290 (27 m²)
Cement board	290 (27 m²)
Plywood	265 (25 m²)
Oriented strand board (OSB)	265 (25 m²)
Concrete masonry units (CMU)	230 (21 m²)
Concrete/masonry with masonry/block sealer	300 (28 m²)
EMBEDDED SHEATHING FABRIC	PER ROLL (ft)
4" Sheathing fabric	180 (55 m)
6" Sheathing fabric	180 (55 m)
9" Sheathing fabric	180 (55 m)

* Roll or spray/backroll for optimum coverage rate. Other application methods may provide less coverage. Actual results may vary depending on surface porosity, moisture uptake and other factors.

** Sheathing fabric saturated with SOPRASEAL LM 203, when applied per manufacturer instructions, self gauges to a 30-40 mil thickness.



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TECHNICAL INFORMATION & TESTING

PHYSICAL PROPERTIES

PROPERTY		TEST METHOD
Air leakage of air barrier assemblies, cfm/ft ² (L/s·m ²) @ 1.57 psf (75 Pa) positive/past conditioning @ 1.57 psf (75 Pa) negative/past conditioning	0.0001 (0.0005) - PASS 0.0003 (0.0015) - PASS	ASTM E2357
Air permeance of building materials, cfm/ft ² (L/s·m ²) @ 1.57 psf (75 Pa)	0.00098 (0.005)	ASTM E2178
Rate of air leakage, cfm/ft ² (L/s·m ²) @ 1.57 psf (75 Pa)	0.0037 (0.019)	ASTM E283
Water vapor transmission, perms @ 26 mils (0.66 mm) wet film thickness @ 10 mils (0.25 mm) wet film thickness	0.09 (5.15) 0.18 (10.30)	ASTM E96 Method A
Pull-off strength of coatings	Pass	ASTM D4541
Nail sealability (without sheathing fabric)	Pass	ASTM D1970
Compound stability (elevated temperature)	No flowing, dripping or drop formation up to 350°F (177°C)	ASTM D5147 section 15
Surface burning class A flame spread class A smoke developed spread	< 25 < 450	ASTM E84
Fire resistance	Pass	NFPA 285
Resistance to fungal defacement	Pass	ASTM D5590
VOC content lbs/gal (g/L)	0.17 (20.4)	ASTM D2369

**ICC-ES AC 212 ACCEPTANCE CRITERIA FOR WATER-RESISTIVE COATINGS
USED AS WATER-RESISTIVE BARRIERS OVER EXTERIOR SHEATHING**

SEQUENTIAL TESTING: PROPERTIES		TEST METHOD
1 - Structural 2 - Racking 3 - Restrained environmental conditioning 4 - Water penetration @ 6.24 psf (299 Pa)	(1-3) No cracking at joints or interface of flashing (4) No water penetration after 90 min, tested over OSB and gypsum sheathing	ASTM E1233 Procedure A ASTM E72 ICC-ES AC 212 ASTM E331
SEQUENTIAL TESTING - WEATHERING: PROPERTIES		TEST METHOD
1. UV light exposure 2. Accelerated aging 3. Hydrostatic pressure test	(1-2) No cracking or bond failure to substrate (3) No water penetration	ICC-ES AC 212 ICC-ES AC 212 AATC 127-1985
Water resistance	No sign of deleterious effects after 14 day exposure (tested over various substrates)	ASTM D2247
Freeze-thaw	No sign of deleterious effects after 10 cycles (tested over various substrates)	ASTM E2485 Method B
Tensile bond (before and after freeze-thaw), psi (kPa)	>15 (103) avg; no failure after 10 cycles freeze-thaw (tested over various substrates)	ASTM C297
Tensile bond, psi (kPa)	>15 (103) (tested over various substrates)	ASTM C297

TESTING & APPROVALS



SOPREMA®