



WATERPROOFING

APPLICATIONS

WALLS

SOPRASEAL LM 203

TECHNICAL DATA SHEET 180823SCANE

(supersedes 180419SCANE)

DESCRIPTION

SOPRASEAL LM 203 is a single component, liquid product made from modified rubber. SOPRASEAL LM 203 is used as an air/vapour barrier and provides moisture protection behind wall claddings including brick, siding, metal panels, EIFS and stucco. Utilization of a slipsheet is required for stucco cladding.

RECOMMENDED SUBSTRATES

This product can be used on most building surfaces, (see chart below)

SOPRASEAL LM 203 can also be used in combination with SOPRASEAL STICK FLASHPRO HT and SOPRASEAL STICK 1100 T membranes at openings.

SURFACE PREPARATION

The substrate should be clean, sound, free of excess water and loose materials, grease and any contaminants, which may compromise the performance of the product.

APPLICATION

Apply SOPRASEAL LM 203 at openings, sheathing joints, inside and outside corners and immediately place SOPRASEAL MESH, over wet SOPRASEAL LM 203. Then, completely saturate SOPRASEAL MESH with SOPRASEAL LM 203.

To apply SOPRASEAL LM 203 use a 19 mm (¾ in) nap roller, paint brush or spray equipment.

Use SOPRASEAL SEALANT with SOPRASEAL LM 203 membrane to seal around details and critical areas.

Minimum application temperature: 4 °C (40 °F) and higher. To apply SOPRASEAL LM 203 at temperatures below 4 °C (40 °F), but above -4 °C (25 °F), blend 1 entire quart container of SOPRASEAL LT ADDITIVE.

Allow to dry completely, typically 2 to 4 hours at 25°C (77°F) and 50% relative humidity.

THICKNESS ACCORDING TO SUBSTRATE

Substrates	Number of coat	Wet film thickness
Exterior sheathing, cement-boards (ASTM C1325 Type A Exterior), gypsum sheathing (ASTM C79/ASTM C1396), plywood, OSB, concrete, CMU, concrete/masonry not treated with SOPRASEAL LM BLOCK FILLER.	2 coats	0.33 mm (13 mil)*
Concrete/masonry treated with SOPRASEAL LM BLOCK FILLER (fully cured), other substrats that meets ASTM C 1177 Standards	1 coats	0.66 mm (26 mil)*

*Use a wet film gauge to confirm the wet film thickness of SOPRASEAL LM 203 membrane.
(All values are nominal)

EQUIPMENT

The use of a 25/30 ¾" MEG tip with spraying equipment comprising a diaphragm pump and a minimum of 5 HP compressor (minimum 30 gallons) is recommended.

Recommended spraying pressure: 45 psi.

UV exposure: up to 180 days

RESTRICTION

Do not use SOPRASEAL LM 203 for below grade applications or on surfaces subject to water immersion.

For proper curing, the minimum curing temperature is 4 °C (40 °F) and it must be maintained for the length of curing process.

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



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PACKAGING

Specifications	SOPRASEAL LM 203
Colour	Grey
Solids	74%
Coverage per 19 L per pail	21 m ² to 33 m ² (230 ft ² to 350 ft ²)*
Embedded Sopraseal Mesh per pail**	100 mm (4") / 192 m (630 ft) 150 mm (6") / 128 m (420 ft) 230 mm (9") / 85 m (280 ft)
Dimensions of Sopraseal Mesh	4" Sheathing fabric: 101.5 mm x 54.8 m (4" x 180 ft) roll 6" Sheathing fabric: 152.4 mm x 54.8 m (6" x 180 ft) roll 9" Sheathing fabric: 228.5 mm x 54.8 m (9" x 180 ft) roll

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

** SOPRASEAL MESH saturated with SOPRASEAL LM 203, when applied per manufacturer instructions, self gauges to 0,75-1 mm (30-40 mil) thickness.
(All values are nominal)

PROPERTIES

Properties	Standards	SOPRASEAL LM 203
Air leakage resistance (assembly) - 75 Pa (1.57 psf) positive / post conditioning - 75 Pa (1.57 psf) negative / post conditioning	ASTM E2357	0.0007 L/s•m ² (0.0001 cfm/ft ²) 0.0014 L/s•m ² (0.0003 cfm/ft ²)
Air permeability - 75 Pa (1.57 psf)	ASTM E2178	0.0049 L/s•m ² (0.00098 cfm/ft ²)
Rate of air leakage	ASTM E283	0.0185 L/s•m ² (0.0037 cfm/ft ²)
Water vapour transmission - 0.6 mm (26 mil) wet film thickness - 0.25 mm (10 mil) wet film thickness	ASTM E96 Method A	5 ng/Pa•s•m ² (0.09 perm) 10 ng/Pa•s•m ² (0.18 perm)
Pull-off strength of coatings	ASTM D4541	Pass - Min, 110 kPa (15.9 psi) or substrate failure (tested over gypsum sheathing)
Nail sealability (without sheathing fabric)	ASTM D1970	Pass
Compound stability (elevated temperature)	ASTM D5147 (section 15)	No flowing, dripping or drop formation up to 177°C (350 °F)
Surface burning - Class A flame spread - Class A smoke developed spread	ASTM E84	< 25 < 450
Fire resistance	NFPA 285	Pass
Resistance to fungual defacement	ASTM D5590	Pass

(All values are nominal)



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PROPERTIES

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

SEQUENTIAL TESTING: PROPERTIES

Properties	Standards	SOPRASEAL LM 203
1- Structural 2- Racking 3- Restrained environmental conditioning 4- Water penetration @ 299 Pa (6.24 psf)	ASTM E1233 Procedure A ASTM E72 ICC-ES AC 212 ASTM E331	(1-3) No cracking at joints or interface of flashing (4) No water penetration after 90 min, tested over OSB and gypsum sheathing

SEQUENTIAL TESTING - WEATHERING: PROPERTIES

Properties	Standards	SOPRASEAL LM 203
1- UV light exposure 2- Accelerated aging 3- Hydrostatic pressure test	ICC-ES AC 212 ICC-ES AC 212 AATC 127-1985	(1-2) No cracking or bond failure to substrate (3) No water penetration
Water resistance	ASTM D2247	No sign of deleterious effects after 14 day exposure (tested over various substrates)
Freeze-thaw	ASTM D2485 Method B	No sign of deleterious effects after 10 cycles (tested over various substrates)
Tensile bond (before and after freeze-thaw), kPa (psi)	ASTM C297	> 103 (15) avg; no failure after 10 cycles freeze-thaw (tested over various substrates)
Tensile bond, kPa (psi)	ASTM C297	> 103 (15) (tested over various substrates)

(All values are nominal)

STORAGE AND HANDLING

Shelf life: Approximately 24 months, properly stored in original unopened containers. Protect from freezing, 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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