sopraSEAL

WATERPROOFING

APPLICATIONS

WALLS

SOPRASEAL LM 203

TECHNICAL DATA SHEET APTDS-E-52-01

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, such as masonry, concrete, wood and gypsum.
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 nap roller, paint brush or spray equipment.

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

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

EQUIPMENT

The use of a 25/30 ¼" 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.

RESTRICTION

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

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

SOPREMA

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

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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
Embeded Sopraseal Mesh per pail**	100 mm / 192 m 150 mm / 128 m 230 mm / 85 m
Dimensions of Sopraseal Mesh	101.5 mm x 54.8 m roll 152.4 mm x 54.8 m roll 228.5 mm x 54.8 m 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 thickness.
(All values are nominal)

PROPERTIES

Properties	Standards	SOPRASEAL LM 203
Air leakage resistance (assembly) - 75 Pa positive / post conditioning - 75 Pa negative / post conditioning	ASTM E2357	0.0007 L/s•m^2 0.0014 L/s•m^2
Air permeability - 75 Pa	ASTM E2178	0.0049 L/s•m^2
Rate of air leakage	ASTM E283	0.0185 L/s•m^2
Water vapour transmission - 0.5 mm wet film thickness - 0.25 mm wet film thickness	ASTM E96 Method B	5 ng/Pa•s•m^2 (14 perm) 10 ng/Pa•s•m^2 (18 perm)
Pull-off strength of coatings	ASTM D4541	Pass - Min, 110 kPa (15.9 psi) or substrate failure (tested over gypsum sheating)
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
Surface burning - Class A flame spread - Class A smoke developed spread	ASTM E84	< 25 < 450
Fire resistance	ASTM E119/UL263 NFPA 285	Will not add or detract the rating of a fire resistive wall assembly 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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