

SOPRA-SPF 201 & SOPRA-SPF 201 LT

TECHNICAL DATA SHEET 190531SCANE

(supersedes 190403SCANE)



WATERPROOFING
INSULATION

APPLICATIONS

WALLS

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DESCRIPTION

SOPRA-SPF 201 is a two-component, closed-cell, spray-applied polyurethane foam insulation system. SOPRA-SPF 201 is designed for commercial, industrial and residential insulation applications. This product is available in two versions depending on the application temperature; SOPRA-SPF 201 LT is used in low temperature applications. SOPRA-SPF 201 and SOPRA-SPF 201 LT meets and exceeds CAN/ULC-S705.1 standard.

RECOMMENDED SUBSTRATES

This product can be used on most substrates such as masonry, concrete, wood, metal and gypsum, on the sanded surface of bitumen membranes, and on SOPRASEAL STICK 1100 T, SOPRASEAL STICK 600 TC and SOPRASEAL STICK FLASHPRO HT membranes.

SURFACE PREPARATION

The substrate to be sprayed on should be free of dirt, soil, grease, oil and moisture prior to the application of either SOPRA-SPF 201 or SOPRA-SPF 201 LT. Moisture in any form such as excessive relative humidity (> 85% R.H.), rain, fog, or ice will react chemically and will adversely affect the system performance and corresponding physical properties. Always check adhesion on substrate as per CAN/ULC-S705.2 Standard.

APPLICATION

SOPRA-SPF 201 and SOPRA-SPF 201 LT must be applied with a spray gun. Mix the two components, SOPRA-SPF 201 RESIN or SOPRA-SPF 201 LT RESIN and SOPRA-SPF ISO, with a 1:1 ratio by volume. Applicators should apply a maximum thickness of 50 mm (2 in) per pass (CAN/ULC S705.2). Allow the surface temperature to cool to 37 °C (99 °F) or ambient temperature, if higher than 37 °C (99 °F), between passes.

- Application temperatures:

SOPRA-SPF 201 : 10 °C to 50 °C (50 °F to 122 °F)

SOPRA-SPF 201 LT : -10 °C to 25 °C (14 °F to 77 °F)

- Maximum service temperature:

SOPRA-SPF 201 & SOPRA-SPF 201 LT : 82 °C (180 °F)



SOPRA-SPF 201 & SOPRA-SPF 201 LT meet requirements of the GREENGUARD GOLD certification.

EQUIPMENT

A mechanical purge spray gun is recommended for highest foam quality. It is dispensed through an approved transfer pump that can deliver a 2:1 ratio from the container to the proportioner to ensure the specified 1:1 ratio. Hose heaters should be set to deliver 45 °C to 55 °C (113 °F to 131 °F) material to the spray gun.

Recommended spraying pressure: 1,000 to 1,500 psi (69 to 103 bar).

RESTRICTIONS

SOPRA-SPF 201 and SOPRA-SPF 201 LT may only be installed by a certified installer as per ISO 17024 SPF and CAN/ULC S705.2 Standards. Extreme care must be taken when removing and reinstalling transfer pumps so as not to interchange the two components.

If the product is below storage temperatures, the increased viscosity of the components may cause pump cavitation resulting in inadequate SPF application. If the product is above storage temperatures, there may be a loss of blowing agent resulting in diminished yield.

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



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PACKAGING

Specifications	SOPRA-SPF 201	SOPRA-SPF 201 LT
Colour	Grey	Grey
Hose temperature (A and B)	45 °C to 55 °C (113 °F to 131 °F)	45 °C to 55 °C (113 °F to 131 °F)
Mix ratio parts	1 : 1	1 : 1
Specific gravity @ 25 °C (77 °F)		
Part A*	1.24 kg/L	1.24 kg/L
Part B**	1.18 kg/L	1.18 kg/L
Viscosity, Brookfield at 25 °C (77 °F)		
Part A*	150-350 cP	150-350 cP
Part B**	500-900 cP	500-900 cP

*Part A : SOPRA-SPF ISO

**Part B : SOPRA-SPF 201 RESIN or SOPRA-SPF 201 LT RESIN
(All values are nominal)

WEIGHT

Dimensions	SOPRA-SPF 201	SOPRA-SPF 201 LT
Drum		
Part A*	227 kg (500 lb)	227 kg (500 lb)
Part B**	227 kg (500 lb)	227 kg (500 lb)
Tote		
Part A*	1135 kg (2 500 lb)	1135 kg (2 500 lb)
Part B**	1135 kg (2 500 lb)	1135 kg (2 500 lb)

*Part A : SOPRA-SPF ISO

**Part B : SOPRA-SPF 201 RESIN or SOPRA-SPF 201 LT RESIN
(All values are nominal)





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PROPERTIES

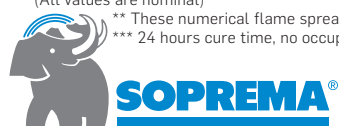
Properties	Standards	SOPRA-SPF 201 & SOPRA-SPF 201 LT
Density	ASTM D1622	33.6 kg/m ³ (2.1 lb/ft ³)
Aged thermal resistance, 50 mm (2 in) 90 days at 60 °C (140 °F) 25 mm (1 in) 90 days at 60 °C (140 °F)	ASTM C518	2.5 m ² ·K/W (14 ft ² ·hr·°F/ BTU) 1.2 m ² ·K/W (6.9 ft ² ·hr·°F/ BTU)
Long term thermal resistance (type 2) 50 mm (2 in) 75 mm (3 in) 100 mm (4 in) 127 mm (5 in) 152 mm (6 in) 203 mm (8 in)	CAN/ULC-S770	2 RSI (R12) 3.3 RSI (R19) 4.4 RSI (R25) 5.5 RSI (R31) 6.6 RSI (R37) 8.8 RSI (R50)
Compressive strength	ASTM D1621	227 kPa (33 lb/in ²)
Tensile strength	ASTM D1623	273 kPa (40 lb/in ²)
Water absorption	ASTM D2842	< 1% by volume
Water vapour permeance, 50 mm (2 in)	ASTM E96 (method A)	46 ng/Pa·s·m ² (0.8 perm)
Air leakage rate classification, 38.1 mm (1.5 in)	CAN/ULC S742/ *ASTM E283	A1 (< 0.02 L/s·m ²)
Air permeance at 75 Pa, 25 mm (1 in)	ASTM E2178	< 0.0013 L/s·m ² (< 0.00026 cfm/ft ²)
Dimensional stability: - 28 days at -20 °C (- 4 °F) - 28 days at 80 °C (176 °F) - 28 days at 70 °C (158 °F), 95% RH	ASTM D2126	< 0.1% change of volume < 2% change of volume < 6% change of volume
Surface burning characteristics**, flame spread	CAN/ULC-S102/ *ASTM E84	< 50
Surface burning characteristics, smoke index	CAN/ULC-S102/ *ASTM E84	< 250
Surface burning characteristics**, flame spread	CAN/ULC-S127	< 250
Fungi resistance	ASTM C1338	No growth
VOC emissions***	CAN/ULC-S774/ *CA 01350	Pass
Time to re-occupancy	CAN/ULC-S774/ *CA 01350	24h @ 0.3 CAH
Pull adhesion - concrete masonry unit - Exterior gypsum board - OSB, Wood studs, Plywood	ASTM D4541	> 400 kPa (> 60 psi) > 340 kPa (< 50 psi) > 340 kPa (> 50 psi)

For CCMC product evaluation see CCMC Evaluation listing 14107-L/ * ICC-ES ESR-4411.

SOPRA-SPF 201 and SOPRA-SPF 201 LT meets and exceeds CAN/ULC-S705.1 standard.
(All values are nominal)

** These numerical flame spread values are not a true reflection on how this or any material will perform in actual fire conditions.

*** 24 hours cure time, no occupancy.



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STORAGE AND HANDLING

SOPRA-SPF 201 and SOPRA-SPF 201 LT must be stored between 15 °C and 24 °C (60 °F to 75 °F) in a dry and well-ventilated area. It is important to condition the product at temperatures between 20 °C and 25 °C (68 °F to 77 °F) before and during the application. If this is not possible, the conditioning of the product must be done 24 hours before the application for the drums, and 48 hours for the totes. Product temperature should be checked with a thermometer or an infrared gun.

Pressure inside the container may increase to the point of rupture if stored under direct sun or at temperatures over 26 °C (79 °F). These conditions may also affect the quality of the product. Do not configure the equipment to recirculate SOPRA-SPF 201 or SOPRA-SPF 201 LT components from proportioner back into the containers. Do not recirculate or mix other supplier components into SOPRA-SPF 201 or SOPRA-SPF 201 LT containers.

Shelf life of SOPRA-SPF ISO (Part A): 1 year

Shelf life of SOPRA-SPF 201 RESIN or SOPRA-SPF 201 LT RESIN (Part B): 6 months

For more information, refer to the instructions on the container label and relevant safety data sheet (SDS).

