

SOPRA-SPF 202 & SOPRA-SPF 202 LT

TECHNICAL DATA SHEET 201021SCANE

(supersedes 201005SCANE)



WATERPROOFING
INSULATION

APPLICATIONS

WALLS

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DESCRIPTION

SOPRA-SPF 202 is a two-component, closed-cell, spray-applied polyurethane foam insulation system. Thanks to its eco-friendly HFO blowing agent, SOPRA-SPF 202 has a zero ozone depletion potential (ODP) and a global warming potential (GWP) of 1. SOPRA-SPF 202 is designed for commercial, industrial and residential insulation applications. This product is available in two versions depending on the application temperature; SOPRA-SPF 202 LT is used in low temperature applications. SOPRA-SPF 202 and SOPRA-SPF 202 LT meet and exceed CAN/ULC-S705.1 standard.

SOPRA-SPF 202 meets requirements of the GREENGUARD GOLD certification.

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 202 or SOPRA-SPF 202 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 202 and SOPRA-SPF 202 LT must be applied with a spray gun. Mix the two components, SOPRA-SPF 202 RESIN or SOPRA-SPF 202 LT 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 202: 10 °C to 50 °C (50 °F to 122 °F)

SOPRA-SPF 202 LT: -10 °C to 25 °C (14 °F to 77 °F)

Maximum service temperature

SOPRA-SPF 202 and SOPRA-SPF 202 LT: 82 °C (180 °F)

EQUIPMENT

A mechanical purge spray gun is recommended for highest foam quality. It is dispensed through an approved transfer pump that can deliver a 1:1 ratio from the container to the proportioner. Hose heaters should be set to deliver 40 °C to 52 °C (105 °F to 125 °F) material to the spray gun.

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

RESTRICTIONS

SOPRA-SPF 202 and SOPRA-SPF 202 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 202 and SOPRA-SPF 202 LT	
Colour	Grey	
Hose temperature (A and B)	40 °C to 52 °C (105 °F to 125 °F)	
Mix ratio parts	1 : 1	
Specific gravity @ 25 °C (77 °F)	Part A* Part B**	1.24 kg/L 1.18 kg/L
Viscosity, Brookfield at 25 °C (77 °F)	Part A* Part B**	250 cP 600 cP

*Part A : SOPRA-SPF ISO

**Part B : SOPRA-SPF 202 RESIN or SOPRA-SPF 202 LT RESIN

(All values are nominal)

WEIGHT

Dimensions	SOPRA-SPF 202 and SOPRA-SPF 202 LT	
Drum	Part A* Part B**	227 kg (500 lb) 227 kg (500 lb)
Tote	Part A* Part B**	1135 kg (2 500 lb) 1135 kg (2 500 lb)

*Part A : SOPRA-SPF ISO

**Part B : SOPRA-SPF 202 RESIN or SOPRA-SPF 202 LT RESIN

(All values are nominal)



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PROPERTIES

Properties	Standards	SOPRA-SPF 202 and SOPRA-SPF 202 LT
Density	ASTM D1622	36 kg/m ³ (2.2 lb/ft ³)
Aged thermal resistance, 90 days	ASTM C518	2.4 RSI (R-13.9)
Long term thermal resistance (type 2)	CAN/ULC-S770-15	50 mm (2 in) 2.1 RSI (R-12.1)
75 mm (3 in)		3.3 RSI (R-18.6)
100 mm (4 in)		4.4 RSI (R-25.2)
125 mm (5 in)		5.6 RSI (R-31.8)
150 mm (6 in)		6.8 RSI (R-38.4)
175 mm (7 in)		7.9 RSI (R-45)
200 mm (8 in)		8.1 RSI (R-51.6)
Compressive strength	ASTM D1621	180 kPa (26.1 psi)
Tensile strength	ASTM D1623	226 kPa (32.8 psi)
Water absorption	ASTM D2842	0.5 % by volume
Water vapour permeance, 25 mm (1 in) 50 mm (2 in)	ASTM E96 (method A)	47,34 ng/Pa·s·m ² (0,86 perm)
		23 ng/Pa·s·m ² (0,42 perm)
Air permeance at 75 Pa	ASTM E2178	< 0,002 L/s·m ² (< 0,0004 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), 97% RH	ASTM D2126	-0.9 % change of volume
		0.1 % change of volume
		-9.6 % change of volume
Surface burning characteristics,* flame spread	CAN/ULC-S127	255
Surface burning characteristics,* Smoke developed classification Flame spread rating	CAN/ULC-S102 ASTM E84	6.8 130
VOC emissions**	CAN/ULC-S774/ CA 01350	0 g/L
Open cell content	ASTM D2856	<3%

(All values are nominal)

For CCMC product evaluation see CCMC Evaluation listing 14141-L/ * ICC-ES ESR-4411.

SOPRA-SPF 202 and SOPRA-SPF 202 LT meets and exceeds CAN/ULC-S705.1-15 standard.

* 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 202 and SOPRA-SPF 202 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 202 or SOPRA-SPF 202 LT components from proportioner back into the containers. Do not recirculate or mix other supplier components into SOPRA-SPF 202 or SOPRA-SPF 202 LT containers.

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

Shelf life of SOPRA-SPF 202 RESIN and SOPRA-SPF 202 LT RESIN (Part B): 6 months

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



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