

SOPRA-SPF 100

TECHNICAL DATA SHEET 190418SCANE

(supersedes 190403SCANE)



WATERPROOFING
INSULATION
SOUNDPROOFING

APPLICATIONS

WALLS

INDOOR APPLICATIONS

DESCRIPTION

SOPRA-SPF 100 is a two-component, vapour permeable open-cell spray-applied polyurethane foam insulation system. SOPRA-SPF 100 is designed for exterior and interior commercial, industrial and residential insulation and soundproofing. It is 100% water-blown i.e. no hydrofluorocarbons (HFC).

RECOMMENDED SUBSTRATES

This product can be used on most substrates such as masonry, concrete, wood, metal and gypsum.

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 100. 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.

APPLICATION

SOPRA-SPF 100 must be applied with a spray gun. Mix the SOPRA-SPF 100 RESIN 20 minutes before start-up. Then, mix the two components, SOPRA-SPF 100 RESIN and SOPRA-SPF 201 ISO, with a 1:1 ratio by volume. It is strongly suggested always to maintain the SOPRA-SPF 100 RESIN mixing at low speed. Gun tip suggested : 42-52.

- Application temperatures:

SOPRA-SPF 100 : -10 °C to 50 °C (14 °F to 122 °F)

- Maximum service temperature:

SOPRA-SPF 100 : 82 °C (180 °F)



SOPRA-SPF 100 meet the requirements of the GREENGUARD certification.

EQUIPMENT

An air 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 54 °C to 59 °C (130 °F to 135 °F) material to the spray gun. Recommended spraying pressure: 1,000 to 1,500 psi (69 to 103 bar), depending on hose length.

RESTRICTIONS

SOPRA-SPF 100 may only be installed by a certified installer as per ISO 17024 SPF and CAN/ULC-S712.2 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. Keep from freezing.

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



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PACKAGING

Specifications	SOPRA-SPF 100
Colour	Yellow
Hose temperature (A and B)	54 °C to 59 °C (130 °F to 135 °F)
Mix ratio parts	1 : 1
Specific gravity at 25 °C (77 °F) Part A* Part B**	1.24 kg/L 1.1 kg/L
Viscosity, Brookfield at 25 °C (77 °F) Part A* Part B**	150-350 cP 400-700 cP

*Part A : SOPRA-SPF 201 ISO

**Part B : SOPRA-SPF 100 RESIN

(All values are nominal)

WEIGHT

Dimensions	SOPRA-SPF 100
Drum Part A* Part B**	227 kg (500 lb) 227 kg (500 lb)

*Part A : SOPRA-SPF 201 ISO

**Part B : SOPRA-SPF 100 RESIN

(All values are nominal)



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PROPERTIES

Properties	Standards	SOPRA-SPF 100
Density	ASTM D1622	17.2 kg/m ³ (1.07 lb/ft ³)
Initial thermal resistance, 25 mm	ASTM C518	0.75 RSI (R 4.3)
Aged thermal resistance, 25 mm 90 days at 60 °C (140 °F)	ASTM C518	0.75 RSI (R 4.3)
Tensile strength	ASTM D1623	94 kPa (13.6 lb/in ²)
Water absorption	ASTM D2842	1.6% by volume
Air permeability- 75 Pa 50 mm (2 in)	ASTM E2178	0.0025 L/s•m ²
Water vapour permeance, 25 mm (1 in) 50 mm (2 in)	ASTM E96 (method B)	1175 ng/Pa•s•m ² (21 perm) 949 ng/Pa•s•m ² (17 perm)
Dimensional stability (after 28 days): - at -20 °C (- 4 °F) - at 80 °C (176 °F) - at 70 °C (158 °F), 97% RH	ASTM D2126	0.008% change of volume - 0.9% change of volume - 2.3% change of volume
Surface burning characteristics**, flame spread	CAN/ULC-S102 *ASTM E 84	< 500
Surface burning characteristics, smoke index	CAN/ULC-S102 *ASTM E84	< 500
Fungi resistance	ASTM C1338	No growth
VOC emissions***	CAN/ULC-S774 *CA 01350	Pass

(All values are nominal)

SOPRA-SPF 100 meets and exceeds CAN/ULC-S712.1 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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All products manufactured by SOPREMA Inc. comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

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STORAGE AND HANDLING

SOPRA-SPF 100 must be stored between 18 °C and 30 °C (64 °F to 86 °F) in a dry and well-ventilated area, 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.

Pressure inside the container may increase to the point of rupture if stored under direct sun or at temperatures over 60 °C (140 °F). These conditions may also affect the quality of the product. Do not configure the equipment to recirculate **SOPRA-SPF 100** components from proportioner back into the containers. Do not recirculate or mix other supplier components into **SOPRA-SPF 100** containers. Keep from freezing.

Shelf life of SOPRA-SPF 201 ISO (Part A): 1 year

Shelf life of SOPRA-SPF 100 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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