

ALSAN® RS

230 FIELD

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PRODUCT #

- L-RS020SC (summer grade - pebble grey)
- L-RS023SC (summer grade - traffic white)
- L-RS020WC (winter grade - pebble grey)
- L-RS023WC (winter grade - traffic white)

PRODUCT DATA SHEET

DESCRIPTION & FEATURES

ALSAN RS 230 Field is a high performance, rapid-setting, polymethyl methacrylate (PMMA) liquid resin. ALSAN RS 230 Field is catalyzed with ALSAN RS catalyst powder and combined with ALSAN RS Fleece reinforcing fabric to form a flexible, monolithic, reinforced membrane.

STORAGE

Always store closed containers in a cool, ventilated and dry location away from heat and oxidizing agents. Do not store in direct sunlight or in temperatures below 32°F (0°C) or above 77°F (25°C). Approximate shelf life is twelve months from date of shipment when properly stored, sealed and unmixed.



APPLICATION

ALSAN RS 230 Field is applied via brush or roller. Prior to application, refer to published specifications and approved details for complete application instructions. The applicator is responsible for ensuring conditions are appropriate to proceed with proper application method.

APPLICATION



BRUSH



ROLLER

COOL ROOF RATING

PRODUCT	SOLAR REFLECTANCE		THERMAL EMITTANCE		SRI	
	initial	3 year	initial	3 year	initial	3 year
ALSAN RS 230 Field (White)	0.86	72	0.87	86	109	88

QUICK FACTS

UNIT SIZE (kg)	AMBIENT TEMP (°F)	SUBSTRATE TEMP (°F)	RESIN TEMP (°F)	POT LIFE (min)	RAIN PROOF (min)	NEXT LAYER (hour)	FULLY CURED (hour)
25 (20.5 L)	23-95 (-5 to 35°C)	23-122 (-5 to 50°C)	37-86 (3 to 30°C)	15-20 at 68°F (20°C)	30-45 at 68°F (20°C)	1-1.5 at 68°F (20°C)	3-6 at 68°F (20°C)



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www.soprema.us
 310 Quadral Drive, Wadsworth, Ohio 44281
 Toll Free: (800) 356-3521 | Tel: (330) 334-0066

TECHNICAL INFORMATION & TESTING

APPROXIMATE COVERAGE RATES

SUBSTRATE PROFILE	25KG UNIT ft ² (m ²)	MINIMUM TOTAL CONSUMPTION kg/ft ² (kg/m ²)	BASE COMPONENT CONSUMPTION kg/ft ² (kg/m ²)	TOP COAT CONSUMPTION kg/ft ² (kg/m ²)	TOTAL THICKNESS mils(mm)	BASE COAT mils (mm)	TOP COAT mils (mm)
Smooth	89 (8.3)	0.28 (3.0)	0.18 (2.0)	0.1 (1.0)	98 (2.5)	65 (1.6)	32 (0.8)
Typical	81 (7.6)	0.31 (3.3)	0.21 (2.3)		106 (2.7)	74 (1.9)	
Granulated	71 (6.6)	0.36 (3.8)	0.26 (2.8)		122 (3.1)	90 (2.3)	
Rough	63 (5.8)	0.40 (4.3)	0.30 (3.3)		140 (3.5)	108 (2.7)	

Catalyst quantity will range from 2 – 6% (by weight) dependent on the ambient temperature.

CATALYST MIXING CHART

CATALYST REQUIRED	SUMMER FORMULATION				WINTER FORMULATION					
	4% Catalyst 50°F (10°C) to 68°F (20°C)		2% Catalyst 68°F (20°C) to 95°F (35°C)		6% Catalyst 23°F (-5°C) to 37°F (3°C)		4% Catalyst 37°F (3°C) to 50°F (10°C)		2% Catalyst 50°F (10°C) to 68°F (20°C)	
25 kg can	10 0.1 kg packets		5 0.1 kg packets		15 0.1 kg packets		10 0.1 kg packets		5 0.1 kg packets	
1 kg	TBSP	kg	TBSP	kg	TBSP	kg	TBSP	kg	TBSP	kg
	4	0.04	2	0.02	6	0.06	4	0.04	2	0.02
1 liter (~1.2 kg)	5	0.05	2.5	0.024	7	0.07	5	0.05	2.5	0.024

PHYSICAL PROPERTIES

PROPERTY	MD	XMD	TEST METHOD
Peak load @ 73.4°F (23°C) control, lbf/in (kN/m)	60 (10.5)	55 (9.6)	ASTM D5147
Elongation @ 73.4°F (23°C) control, %	55	85	ASTM D5147
Peak load @ 73.4°F (23°C) post heat aging, lbf/in (kN/m)	65 (11.4)	70 (12.3)	ASTM D5147
Elongation @ 73.4°F (23°C) post heat aging, %	55	50	ASTM D5147
Peak load @ 73.4°F (23°C) post acc. weathering, lbf/in (kN/m)	70 (12.3)	70 (12.3)	ASTM D5147
Elongation @ 73.4°F (23°C) post acc. weathering, %	70	60	ASTM D5147
Peak load @ 0°F (-18°C), lbf/in (kN/m)	130 (22.8)	110 (19.3)	ASTM D5147
Elongation @ 0°F (-18°C), %	65	85	ASTM D5147
Tear resistance, lbf (N)	75 (334)	60 (267)	ASTM D5147
Dimensional stability, %	0	0.1	ASTM D5147
Static puncture resistance, lbf (N)	Pass 56 (249)		ASTM D5602
Shore A hardness, durometer	87		ASTM D2240
Water absorption, %	0.9		ASTM D570 (@ 212°F)
Water vapor permeance, perms	0.3		ASTM E96
Low temperature flexibility, °F (°C)	Pass -33 (-36.1)	Pass - 33 (-36.1)	ASTM D7264
Low temperature crack bridging	No cracks		ASTM C1305
Self-ignition, °F (°C)	752 (400)		ASTM D1929
Smoke density index	150		ASTM E84
Rate of burning, in/min (m/hr)	0.9 (1.4)		ASTM D635

TESTING & APPROVALS

