

ALSAN® RS 230 FIELD

Rapid-Setting Liquid Membrane Resin



APPLICATIONS

ROOFING

PRODUCT DATA SHEET PD10237 - REV 231128

PRODUCT NUMBERS:

- L-RS2301 - **20 kg (16.13 L) Pail**
(Summer grade - Traffic white)
 - L-RS2302 - **20 kg (16.18 L) Pail**
(Summer grade - Pebble grey)
 - L-RS2303 - **20 kg (15.94 L) Pail**
(Winter grade - Traffic white)
 - L-RS2304 - **20 kg (16 L) Pail**
(Winter grade - Pebble grey)
- Requires the addition of ALSAN RS CATALYST.*

DESCRIPTION & FEATURES:

ALSAN RS 230 FIELD is a high-performance, rapid-setting, polymethyl methacrylate (PMMA) liquid resin. **ALSAN RS 230 FIELD** resin is combined with ALSAN RS Fleece to form a monolithic, self-flashing and self-adhering reinforced waterproofing membrane. **ALSAN RS 230 FIELD** is available in summer or winter formulations.

- UV stable, high solids and VOC-compliant
- Rapid curing and easy application provides same-day installation
- Available in pebble grey or traffic white

MIXING INSTRUCTIONS & CATALYZING:

Using a slow-speed (200 to 400 rpm) mechanical agitator, thoroughly mix the entire container of resin for two minutes before use. Only catalyze the amount of material that can be used within 10-15 minutes. Add the pre-measured catalyst to the resin component and stir for two minutes and apply to the substrate. Refer to the catalyst information found on the second page of this PDS. Apply without dilution or thinning.

APPLICATION:



BRUSH



ROLLER

After mixing, apply **ALSAN RS 230 FIELD** to prepared substrate at the required consumption using a roller or brush. The resin should be applied evenly onto the surface using care not to spread too thin or pool in low areas.

Refer to the ALSAN RS Roofing Technical Manual for additional application guidelines.

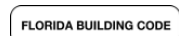
STORAGE:

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 55°F (13°C) or above 80°F (27°C). Approximate shelf life is 12 months from date of shipment when properly stored, sealed and unmixed.

LIMITATIONS:

SOPREMA advises that adhesion/peel tests be performed prior to application to ensure adequate bond can be achieved.

TESTING & APPROVALS:



NOA # 20-0825.11



WARRANTY:

For more information refer to www.SOPREMA.us or contact your SOPREMA representative.



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PRODUCT MIXING & WORKING TIMES:

WORKING TIMES & TEMPERATURES*		
SUMMER FORMULATION	PROPERTY	WINTER FORMULATION
50 - 95 (10 - 35)	Ambient temperature, °F (°C)	23 - 68 (-5 - 20)
50 - 122 (10 - 50)	Substrate temperature, °F (°C)	23 - 68 (-5 - 20)
50 - 86 (10 - 30)	Resin temperature, °F (°C)	37 - 68 (3 - 20)
15 - 20	Pot life @ 68°F (20°C), min	15 - 20
30 - 45	Rain proof @ 68°F (20°C), min	45 - 60
1 - 1.5	Next layer @ 68°F (20°C), hours	1 - 2
3 - 6	Fully cured @ 68°F (20°C), hours	5

* All working and cure times are approximate and may vary upon wind, humidity and ambient/surface temperatures.

CATALYST MIXING CHART*										
CATALYST REQUIRED	SUMMER FORMULATION				WINTER FORMULATION					
	4% CATALYST 50°F - 68°F (10°C - 20°C)		2% CATALYST 68°F - 95°F (20°C - 35°C)		6% CATALYST 23°F - 37°F (-5°C - 3°C)	4% CATALYST 37°F - 50°F (3°C - 10°C)	2% CATALYST 50°F - 68°F (10°C - 20°C)			
20 KG CAN	8 (0.1 kg) packets		4 (0.1 kg) packets		12 (0.1 kg) packets	8 (0.1 kg) packets	4 (0.1 kg) packets			
1 LITER (~1.2 kg)	5 (tbsp)	0.05 (kg)	2.5 (tbsp)	0.025 (kg)	7 (tbsp)	0.07 (kg)	5 (tbsp)	0.05 (kg)	2.5 (tbsp)	0.025 (kg)

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

APPROXIMATE COVERAGE RATES							
SUBSTRATE PROFILE	20 KG 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 kg/ft ² (kg/m ²)	TOTAL THICKNESS mils (mm)	BASE COAT mils (mm)	TOP COAT mils (mm)
SMOOTH (CPS 1 or primed substrate)	70 (6.5)	0.28 (3.0)	0.18 (2.0)	0.10 (1.0)	98 (2.5)	63 (1.6)	35 (0.9)
TYPICAL (CSP 3-4 & SBS sanded base sheet)	66 (6.1)	0.30 (3.3)	0.20 (2.3)		106 (2.7)	71 (1.8)	
SBS GRANULATED SHEET (CSP 5)	57 (5.2)	0.35 (3.8)	0.25 (2.8)		122 (3.1)	87 (2.2)	
ROUGH (CSP 6)	50 (4.6)	0.40 (4.3)	0.30 (3.3)		140 (3.6)	105 (2.7)	

All values are nominal. Coverage rates may vary depending on substrate conditions and the application technique. Wet and dry thicknesses are always equivalent. Concrete Surface Profile (CSP) from ICRI (International Concrete Repair Institute). Although ALSAN RS 230 FIELD is not applied on concrete, the surface profiles are mentioned as an indication to estimate the coverage rates of the product.



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TECHNICAL INFORMATION & TESTING:

PHYSICAL PROPERTIES*			
PROPERTY	VALUE		ASTM TEST METHOD
Technology	Polymethyl methacrylate (PMMA)		-
Color	Traffic white / Pebble grey		-
Peak load @ 73.4°F (23°C) control , lbf/in (kN/m)	60 (10.5)	55 (9.6)	D5147
Elongation @ 73.4°F (23°C) control , %	55	85	D5147
Peak load @ 73.4°F (23°C) post heat aging , lbf/in (kN/m)	65 (11.4)	70 (12.3)	D5147
Elongation @ 73.4°F (23°C) post heat aging , %	55	50	D5147
Peak load @ 73.4°F (23°C) post acc. weathering , lbf/in (kN/m)	70 (12.3)	70 (12.3)	D5147
Elongation @ 73.4°F (23°C) post acc. weathering , %	70	60	D1475
Peak load @ 0°F (-18°C) , lbf/in (kN/m)	130 (22.8)	110 (19.3)	D1475
Elongation @ 0°F (-18°C) , %	65	85	D1475
Tear resistance , lbf (N)	75 (334)	60 (267)	D1475
Dimensional stability , %	0.1	0.1	D1475
Low temperature flexibility , °F (°C)	Pass -33 (-36.1)	Pass -33 (-36.1)	D7264
Low temperature crack bridging	No cracks		C1305
Static puncture resistance , lbf (N)	Pass 56 (249)		D5602
Shore A hardness , durometer	87		D2240
Water absorption @ 212°F (100°C) , %	0.9		D570
Water vapor permeance , perms	0.3		E96
Self-ignition , °F (°C)	752 (400)		D1929
Smoke density index	150		E84
Rate of burning , in/min (m/hr)	0.9 (1.4)		D635
Cleanup	Alsans RS Cleaner		-
Shelf life , months	12		-
VOC content , g/L	< 5		EPA Method 24

* Data is represented by average values, unless noted otherwise.

SUSTAINABILITY



VOC CONTENT
LOW EMITTING

< 5 g/L

COOL ROOF RATING

PRODUCT	SOLAR REFLECTANCE		THERMAL EMITTANCE		SRI	
ALSAN RS 230 FIELD Traffic white CRRC Product ID: 0772-0046	0.86 Initial	0.72 3 year	0.87 Initial	0.86 3 year	109 Initial	88 3 year

CRRC published results for Solar Reflectance, Thermal Emittance and SRI results were tested and evaluated in accordance with ASTM C1549, C1371, E1980, D7897 and the CRRC-1 Product Rating Program Manual.

