SOPREMA
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ALSAN RS 230 FIELD

TECHNICAL DATA SHEET
160310SCAN1E
(supersedes 141128SCAN2E)

DESCRIPTION

ALSAN RS 230 FIELD is a two-component polymethyl methacrylate-based (PMMA) liquid membrane. **ALSAN RS 230 FIELD** is combined with fleece fabric to form a monolithic, self flashing and self-adhering reinforced field membrane designed for use in interior and exterior new, tear-off and recovery applications.

COLOUR: **ALSAN RS 230 FIELD** is supplied in a standard colors of Pebble Grey and Traffic White.[1]

RECOMMENDED SUBSTRATES

Without primer: metal surfaces

With primer: Consult **ALSAN RS 276 PRIMER** Technical Data Sheet (TDS).

SURFACE PREPARATION

Surfaces must be dry, clean and free of loose particles, formwork, curing products, irregularities, slurry, etc.

APPLICATION

MIXING: Using a slow-speed (200 to 400 rpm) mechanical agitator, thoroughly mix the entire container of resin for two minutes before each use, and prior to pouring off resin into a second container if batch mixing. Catalyze, with **ALSAN RS Catalyst Powder**, only the amount of material that can be used within 10-15 minutes. Add pre-measured catalyst (**ALSAN RS Catalyst Powder**) to the resin component, stir for two minutes and apply to substrate. Refer to Catalyst Mixing Chart for additonal information. **To complete the installation, please refer to ASLAN RS FLEECE technical data sheet.**

Summer Formulation			
Catalyst Mixing Chart			
Catalyst dosage per 25 kg container of resin used			
Temperature range	Catalyst activation	kg	tbsp*
15 °C to 18 °C (59°F to 64°F)	4 %	1	100
18 °C to 40 °C (64°F to 104°F)	2 %	0.5	50
Catalyst dosage per each 1 liter (1.2 kg) of resin used			
Temperature range	Catalyst activation	kg	tbsp*
15 °C to 18 °C (59°F to 64°F)	4 %	0.048	5
18 °C to 40 °C (64°F to 104°F)	2 %	0.024	2.5

Winter Formulation			
Catalyst Mixing Chart			
Catalyst dosage per 25 kg container of resin used			
Temperature range	Catalyst activation	kg	tbsp*
-5 °C to 10 °C (23 °F to 50 °F)	4 %	1	100
10 °C to 20 °C (50 °F to 68 °F)	2 %	0.5	50
Catalyst dosage per each 1 liter (1.2 kg) of resin used			
Temperature range	Catalyst activation	kg	tbsp*
-5 °C to 10 °C (23 °F to 50 °F)	4 %	0.048	5
10 °C to 20 °C (50 °F to 68 °F)	2 %	0.024	2.5

*Each 0.01 kg of **ALSAN RS Catalyst Powder** equals approximately to a level 1-tablespoon size scoop (**ALSAN RS** Measuring Spoon) supplied with the packaged product.

APPLICATION: After mixing, apply resin to clean and prepared substrate at the required consumption using rollers, brushes or notched squeegees. The resin should be spread evenly onto the surface. See individual system specifications for specific guidelines regarding application of primer, membrane, topcoat and/or slip-resistant protective surfacing.

Summer Formulation: **ALSAN RS 230 FIELD** can be applied at substrate temperature between 15 °C (59 °F) and 50 °C (122 °F) and ambient temperature between 15 °C (59 °F) and 40 °C (104 °F).

Winter Formulation: **ALSAN RS 230 FIELD** can be applied at substrate temperature between -5 °C (23 °F) and 20 °C (68 °F) and ambient temperature between -5 °C (23 °F) and 20 °C (68 °F).

1. See table of *Cool Roof Rating Council*, bottom page 2.

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

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APPLICATION

Reaction Times		
Ambient temperature	at 20 °C (68 °F) (W.F.)	at 20 °C (68 °F) (S.F.)
Pot life	20 minutes	15 minutes
Rain proof after	45 minutes	30 minutes
Set time / walked on / next layer	90 minutes	60 minutes
Fully cured	6 hours	3 hours

W.F. - Winter Formulation
S.F. - Summer Formulation
Pot life is dependent on ambient temperatures and will be reduced at higher temperatures. Minimum set times are approximate and may vary. Actual set times and cure times should be established in the field, based on actual field conditions.

COVERAGE

Coverage Rates				
	Coverage		Thicknesses	
	kg / m²	kg / ft²	wet mm	wet mils
Minimum total consumption	3.0	0.28	1.8 - 2.2	72 - 86
Base coat consumption	2.0	0.19	1.3 - 1.5	50 - 60
Top coat consumption	1.0	0.09	0.6 - 0.7	22 - 26

- Coverage rates may vary depending on substrate conditions.
- Wet and dry thicknesses are always equivalent.
- Thickness rate does not take into account polyester fleece reinforcement thickness; measurement is for liquid resin only.

*** Coverage per pail: 8.4 m² (90 ft²)**

PROPERTIES

Property	Test method	**ALSAN RS** 230 FIELD
Membrane thickness	ASTM D 5147 Sec 5	2.9 mm (115 mils)
Peak load @ 23 °C (73 °F), avg.	ASTM D 5147 Sec 6	12.3 kN/m (70 lbf/in)
Elongation @ peak load, avg.	ASTM D 5147 Sec 6	42 %
Peak load @ 23 °C (73 °F), avg.	ASTM D 412 (dumbbell)	15.8 kN/m (90 lbf/in)
Elongation @ peak load, avg.	ASTM D 412 (dumbbell)	55 %
Shore A hardness, avg.	ASTM D 2240	81
Water absorption, (Method I) (24h @ 23 °C (73 °F))	ASTM D 570	0.41 %
Water absorption, (Method II) (48h @ 50 °C (122 °F))	ASTM D 570	1.57 %
Low temperature flexibility	ASTM D 5147 Sec 11	-25 °C (-13 °F)
Dimensional stability (maximum movement)	ASTM D 5147 Sec 10	-0.063 %
Tear strength	ASTM D 5147 Sec 7	0.5 kN (107 lbf)
Tensile strength	ASTM D 412	5.7 mPa (817 psi)

(All values are nominal)
Values based on reinforced **ALSAN RS** Systems at a coverage rate of 3.3 kg/m².

PACKAGING

ALSAN RS 230 FIELD resin is supplied in a 25-kg resealable container with locking ring.

STORAGE & HANDLING

Shelf life: 12 months in original unopened containers. For more information, refer to instruction on the label of the can and to relevant Material Safety Data Sheet (MSDS).

CRRC COOL ROOF RATING COUNCIL

Rated product ID 0072-0046	Classification: Field applied coating			Solar Reflective Index (SRI)	
License Seller ID 0072		Initial	Weathered	Initial	Weathered
	Solar Reflectance	0.86	Pending	108	Pending
	Thermal Emittance	0.89	Pending		

Cool Roof Rating Council ratings are determined for a fixed set of conditions, and may not be appropriate for determining seasonal energy performance. The actual effect of solar reflectance and thermal emittance on building performance may vary. Manufacturer of product stipulates that these ratings were determined in accordance with the applicable Cool Roof Rating Council procedures.

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

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NOTE : SOPREMA INC. may modify the composition and/or utilization of its products without prior notice.