ALSAN
230 FIELD

TECHNICAL DATA SHEET 200828SCANE (supersedes 191104SCANE)

WATERPROOFING

APPLICATIONS

ROOFS

BALCONIES AND PLAZA-DECK

FOUNTAINS AND PONDS

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 (see CRRC chart on last page).

RECOMMENDED SUBSTRATE(S)

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 **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.**

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).

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

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SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

SOPREMA®

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CATALYST MIXING CHART

WINTER FORMULATION			
Temperature range	Catalyst activation	kg	tbsp*
Catalyst dosage per 25 kg container of resin used			
-5 °C to 10 °C (23 °F to 50 °F)	4 %	1	100
10 °C to 20 °C (50 °F to 68 °F)	2 %	0.50	50
Catalyst dosage per each 1 liter (1.2 kg) of resin used			
-5 °C to 10 °C (23 °F to 50 °F)	4 %	0.050	5
10 °C to 20 °C (50 °F to 68 °F)	2 %	0.025	2.5

SUMMER FORMULATION			
Temperature range	Catalyst activation	kg	tbsp*
Catalyst dosage per 25 kg container of resin used			
15 °C to 18 °C (59°F to 64°F)	4 %	1	100
18 °C to 40 °C (64°F to 104°F)	2 %	0.50	50
Catalyst dosage per each 1 liter (1.2 kg) of resin used			
15 °C to 18 °C (59°F to 64°F)	4 %	0.050	5
18 °C to 40 °C (64°F to 104°F)	2 %	0.025	2.5

*Each 0.01 kg of **ALSAN RS Catalyst Powder** equals approximately to a level 1-tablespoon size scoop (15 mL **ALSAN RS** Measuring Spoon) supplied by SOPREMA.

REACTION TIMES

AMBIENT TEMPERATURE	WINTER FORMULATION 20 °C (68 °F)	SUMMER FORMULATION 20 °C (68 °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

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 RATES

Substrate profile	25 KG unit m^2 (ft^2)	MINIMUM TOTAL COMSUMPTION kg/m^2 (kg/ft^2)	BASE COMPONENT COMSUMPTION kg/m^2 (kg/ft^2)	TOP COAT COMSUMPTION kg/m^2 (kg/ft^2)	TOTAL THICKNESS mm (mils)	BASE COAT THICKNESS mm (mils)	TOP COAT THICKNESS mm (mils)
Smooth (CSP 1)*	8.3 (89)	3.0 (0.28)	2.0 (0.18)	1.0 (0.1)	2.5 (98)	1.6 (65)	0.8 (32)
Typical (CSP 3-4)*	7.6 (81)	3.3 (0.31)	2.3 (0.21)		2.7 (106)	1.9 (74)	
Granulated (CSP 5)*	6.6 (71)	3.8 (0.36)	2.8 (0.26)		3.1 (122)	2.3 (90)	
Rough (CSP 6)*	5.8 (63)	4.3 (0.40)	3.3 (0.30)		3.5 (140)	2.7 (108)	

(All values are nominal)

*CSP : Concrete surface profile
NOTES : - Coverage rates may vary depending on substrate conditions and the application technique. The above data may vary by +/- 10%.
- Wet and dry thicknesses are always equivalent.

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PROPERTIES

Properties	Standards	ASLAN RS 230 FIELD
Membrane thickness	ASTM D5147	2.9 mm (115 mils)
Peak load @ 23 °C (73 °F), avg.	ASTM D5147	12.3 kN/m (70 lbf/in)
Elongation @ peak load, avg.	ASTM D5147	42 %
Peak load @ 23 °C (73 °F), avg.	ASTM D412 (Method A -Dumbbell)	15.8 kN/m (90 lbf/in)
Elongation @ peak load, avg.	ASTM D412 (Method A- Dumbbell)	55 %
Shore A hardness, avg.	ASTM D2240	81
Water absorption, (Method I) (24h @ 23 °C (73 °F))	ASTM D570	0.41 %
Water absorption, (Method II) (48h @ 50 °C (122 °F))	ASTM D570	1.57 %
Low temperature flexibility	ASTM D5147 Sec 11	-25 °C (-13 °F)
Dimensional stability (maximum movement)	ASTM D5147 Sec 10	-0.063 %
Tear strength	ASTM D5147 Sec 7	0.5 kN (107 lbf)
Tensile strength	ASTM D412	5.7 mPa (817 psi)
Water vapour transmission	ASTM E96	0.3 perm

(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 AND HANDLING

Shelf life: 12 months in original unopened containers.

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

CRRC	Rated product : ID 0772-0046	Classification: Field applied coating		
	License Seller : ID 0072		Initial	3 years
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.		Solar Reflectance	0.86	0.72
		Thermal Emittance	0.89	0.87
		Solar Reflective Index (SRI)	109	88

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