

ALSAN RS 230 FIELD

TECHNICAL DATA SHEET 220203SCANE

(supersedes 210322SCANE)

DESCRIPTION

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

COLOUR: ALSAN RS 230 FIELD is supplied in standard colors of Pebble Grey and Bright White (see CRRC chart on last page).

RECOMMENDED SUBSTRATES

Metal surfaces: consult the ALSAN RS METAL PRIMER technical data sheet to determine the need to use a primer. Non-metallic surfaces: ALSAN RS 276 PRIMER is required. Please see the technical data sheet for this product for more information.

SURFACE PREPARATION

Surfaces must be dry, clean and free of loose particles, formwork residues, curing products, irregularities, grout, etc. Metal surfaces: consult the ALSAN RS METAL PRIMER technical sheet.

Non-metallic surfaces: ALSAN RS 276 PRIMER is required. Please see the technical data sheet for this product for more information.

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, top coat and/or slip-resistant protective surfacing.

Summer Formulation: ALSAN RS 230 FIELD can be applied at substrate temperature between 10 °C (50 °F) and 50 °C (122 °F) and ambient temperature between 10 °C (50 °F) and 35 °C (95 °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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CATALYST MIXING CHART

WINTER FORMULATION				SUMMER FORMULATION		
Temperature range	Catalyst activation	kg	Tbsp*	Temperature range	Catalyst activation	kg
Catalyst dosage per 20 kg container of resin used				Catalyst dosage per 20 kg container of resin used		
10 °C to 20 °C (50 °F to 68 °F)	2 %	0.40	40	20 °C to 35 °C (68°F to 95°F)	2 %	0.40
3 °C to 10 °C (37 °F to 50 °F)	4 %	0.80	80	10 °C to 20 °C (50°F to 68°F)	4 %	0.80
-5 °C to 3 °C (23 °F to 37 °F)	6 %	1.20	120	Catalyst dosage per each 1	liter (1.2 kg) o	f resin usec
Catalyst dosage per each 1 liter (1.2 kg) of resin used			20 °C to 35 °C (68°F to 95°F)	2 %	0.025	
10 °C to 20 °C (50 °F to 68 °F)	2 %	0.025	2.5	10 °C to 20 °C (50°F to 68°F)	4 %	0.050
3 °C to 10 °C (37 °F to 50 °F)	4 %	0.050	5			
-5 °C to 3 °C (23 °F to 37 °F)	6 %	0.070	7			

*Each 0.01 kg of ALSAN RS Catalyst Powder equals approximately to a level 1-tablespoon (15 ml measuring spoon).

REACTION TIMES

AMBIENT TEMPERATURE	WINTER FORMULATION 20 °C (68 °F)	SUMMER FORMULATION 20 °C (68 °F)
Pot life	15-20 minutes	15-20 minutes
Rain proof after	45-60 minutes	30-45 minutes
Set time / walked on / next layer	1-2 hours	60 - 90 minutes
Fully cured	5 hours	3-6 hours

Pot life depends 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 RATES¹

SUBSTRATE PROFILE	20 KG unit m² (ft²)	MINIMUM TOTAL COMSUMPTION kg/m² (kg/ft²)	BASE COMPONENT COMSUMPTION kg/m² (kg/ft²)	TOP COAT COMSUMPTION kg/m² (kg/ft²)	TOTAL THICKNESS mm (mils)	BASE COAT THICKNESS mm (mils)	TOP COAT THICKNESS mm (mils)
Smooth (CSP 1) ²	6.5 (70)	3.0 (0.28)	2.0 (0.18)	1.0.(0.1)	2.5 (98)	1.6 (63)	0.9 (35)
Typical (CSP 3-4) ²	6.0 (65)	3.2 (0.30)	2.3 (0.21)		2.7 (106)	1.8 (71)	
Granulated (CSP 5) ²	5.2 (56)	3.7 (0.35)	2.8 (0.26)	1.0 (0.1)	3.1 (122)	2.2 (87)	
Rough (CSP 6) ²	4.6 (49)	4.2 (0.40)	3.3 (0.30)		3.6 (140)	2.7 (105)	

(All values are nominal)

¹Coverage rates for two (2) coats. ² CSP: Concrete Surface Profile from ICRI (International Concrete Repair Institute). Although ALSAN RS 230 FIELD is not applied on concrete, the surface profiles indiced are mentioned as an indication to estimate the coverage rates of the product.

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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WATERPROOFING

FOUNTAINS AND PONDS

Tbsp'

40

80

2.5

5

NOTE : 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.

ALSAN RS 230 FIELD

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Rated product : ID 0772-0046		CLASSIFICATION: FIELD APPLIED COATING			
CRRC COOL ROOF RATING COLINCIL	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	0.87	0.86	
		Solar Reflective Index (SRI)	109	88	

PROPERTIES

PROPERTIES	TEST METHOD	MD	XMD
Peak load at 23°C (73.4°F) control, kN/m (lbf/in)	ASTM D5147	10.5 (60)	9.6 (55)
Elongation at 23°C (73.4°F) control, %	ASTM D5147	55	85
Peak load at 23°C (73.4°F) post heat aging, kN/m (lbf/in)	ASTM D5147	11.4 (65)	12.3 (70)
Elongation at 23°C (73.4°F) post heat aging, $\%$	ASTM D5147	55	50
Peak load at 23°C (73.4°F) post acc. weathering, kN/m (lbf/in)	ASTM D5147	12.3 (70)	12.3 (70)
Elongation at 23°C (73.4°F) post acc. weathering, %	ASTM D5147	70	60
Peak load at -18°C (0°F), kN/m (lbf/in)	ASTM D5147	22.8 (130)	19.3 (110)
Elongation at -18°C (0°F), %	ASTM D5147	65	85
Tear resistance, N (lbf)	ASTM D5147	334 (75)	267 (60)
Dimensional stability, %	ASTM D5147	0	0.1
Static puncture resistance, N (lbf)	ASTM D5602	Pass 249 (56)	
Shore A hardness, durometer	ASTM D2240	87	
Water absorption, at 100°C (212°F), %	ASTM D570	0.9	
Water vapor permeance, ng•s ⁻¹ •m ⁻² •Pa ⁻¹ (perms)	ASTM E96	17.2 (0.3)	
Low temperature flexibility, °C (°F)	ASTM D7264	Pass -36.1 (-33)	Pass -36.1 (- 33)
Low temperature crack bridging	ASTM C1305	No cracks	
Self-ignition, °C (°F)	ASTM D1929	400 (752)	
Smoke density index	ASTM E84	150	
Rate of burning, m/hr (in/min)	ASTM D635	1.4 (0.9)	



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SYSTÈME QUALITÉ

QUALITY SYSTEM

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ISO 14001

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APPLICATIONS

ROOFS BALCONIES AND PLAZA-DECK



FOUNTAINS AND PONDS

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PACKAGING

ALSAN RS 230 FIELD resin is supplied in a 20 kg resealable container with locking ring.

STORAGE AND HANDLING

Shelf life: 12 months in original unopened containers.

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 $0^{\circ}C$ (32°F) or above 25°C (77°F).

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





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