

ALSAN RS 230 FIELD

TECHNICAL DATA SHEET 240703SCANE

(supersedes 230609SCANE)



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 (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.

SURFACE PREPARATION

Surfaces must be dry, clean and free from loose particles, formwork residues, curing products, irregularities, grouts, etc. In most cases a primer is required before applying ALSAN RS 230 FIELD. Consult the ALSAN RS 222 PRIMER and ALSAN RS 276 PRIMER technical data sheets to determine which primer to use for the substrate to which ALSAN RS 230 FIELD is applied.

APPLICATION

MIXING: Using a slow-speed (200 to 400 rpm) mechanical agitator, thoroughly mix the entire container of resin for 2 to 3 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 to 15 minutes. Add pre-measured ALSAN RS Catalyst Powder to the resin component, stir for 2 to 3 minutes and apply to substrate. Refer to *Catalyst Mixing Chart* for additional information. **To complete the installation, please refer to ALSAN 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.

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

CATALYST MIXING CHART

	Temperature Range ⁽¹⁾	Catalyst Activation ⁽¹⁾	Catalyst Required ⁽²⁾	
			20 kg container of resin	1 liter (~ 1.2 kg) of resin
Winter Formulation	-5 °C to 3 °C (23 °F to 37 °F)	6%	1.20 kg (120 tbsp)	0.07 kg (7 tbsp)
	3 °C to 10 °C (37 °F to 50 °F)	4%	0.80 kg (80 tbsp)	0.05 kg (5 tbsp)
	10 °C to 20 °C (50 °F to 68 °F)	2%	0.40 kg (40 tbsp)	0.025 kg (2.5 tbsp)
Summer Formulation	10 °C to 20 °C (50 °F to 68 °F)	4%	0.80 kg (80 tbsp)	0.05 kg (5 tbsp)
	20 °C to 35 °C (68 °F to 95 °F)	2%	0.40 kg (40 tbsp)	0.025 kg (2.5 tbsp)

(1): Catalyst quantity will range from 2 to 6% of the resin weight, depending on the ambient temperature.

(2): Each 0.01 kg of ALSAN RS CATALYST POWDER equals approximately to a level 1-tablespoon size scoop (15 ml measuring spoon).



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COVERAGE RATES ⁽¹⁾

Substrate Profile	20 kg unit m ² (ft ²)	Minimum total consumption kg/m ² (kg/ft ²)	Base component consumption kg/m ² (kg/ft ²)	Top coat consumption kg/m ² (kg/ft ²)	Total thickness ⁽³⁾ mm (mils)	Base coat thickness ⁽³⁾ mm (mils)	Top coat thickness ⁽³⁾ 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⁾	6.1 (66)	3.3 (0.30)	2.3 (0.20)		2.7 (106)	1.8 (71)	
Granulated (CSP 5) ⁽²⁾	5.2 (57)	3.8 (0.35)	2.8 (0.25)		3.1 (122)	2.2 (87)	
Rough (CSP 6) ⁽²⁾	4.6 (50)	4.3 (0.40)	3.3 (0.30)		3.6 (140)	2.7 (105)	

(1): Coverage rates for two (2) coats. Coverage rates may vary depending on substrate conditions and the application technique.

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

(3): Wet and dry thicknesses are always equivalent.

GENERAL INFORMATION

Specifications	ALSAN RS 230 FIELD	
	Winter Formulation	Summer Formulation
Physical state	Liquid	
Colour	Mammoth Grey, Pebble Grey ⁽¹⁾⁽²⁾ and Bright White ⁽²⁾	
Container	20 kg (15.9 L)	20 kg (16.1 L)
Application Temperature, <i>ambient substrate resin</i>	-5 °C to 20 °C (23 °F to 68 °F) -5 °C to 20 °C (23 °F to 68 °F) 3 °C to 20 °C (37 °F to 68 °F)	10 °C to 35 °C (50 °F to 95 °F) 10 °C to 50 °C (50 °F to 122 °F) 10 °C to 30 °C (50 °F to 86 °F)
Reaction times ⁽³⁾ , <i>⁽⁴⁾ pot life rain proof after ⁽⁵⁾ set time / walked on / next layer fully cured</i>	15-20 minutes 45-60 minutes 90-120 minutes 5 hours	15-20 minutes 30-45 minutes 60-90 minutes 3-6 hours

(1): Pebble grey colour is only available upon request.

(2): See Solar Rating as per Cool Roof Rating Council (CRRC) below.

(3): Reaction times at 20 °C (68 °F).

(4): Pot life depends on ambient temperatures and will be reduced at higher temperatures.

(5): 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.

SOLAR RATING as per Cool Roof Rating Council (CRRC) ⁽¹⁾

Membrane Colour	Solar Reflectance		Thermal Emittance		SRI	
	Initial	3 years	Initial	3 years	Initial	3 years
Pebble Grey, <i>Prod. ID : 0772-0036</i>	0.34	0.33	0.88	0.87	36	35
Bright White, <i>Prod. ID : 0772-0046</i>	0.86	0.72	0.89	0.87	109	88

(All values are nominal)

(1): 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.



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PROPERTIES

Properties	Standards	ALSAN RS 230 FIELD	
		MD	XMD
Peak load, <i>at 23 °C (73 °F)</i> <i>at -18 °C (0 °F)</i> <i>post heat aging, at 23 °C (73 °F)</i> <i>post acc. weathering, at 23 °C (73 °F)</i>	ASTM D5147	10.5 kN/m (60 lbf/in) 22.8 kN/m (130 lbf/in) 11.4 kN/m (65 lbf/in) 12.3 kN/m (70 lbf/in)	9.6 kN/m (55 lbf/in) 19.3 kN/m (110 lbf/in) 12.3 kN/m (70 lbf/in) 12.3 kN/m (70 lbf/in)
Elongation, <i>at 23 °C (73 °F)</i> <i>at -18 °C (0 °F)</i> <i>post heat aging, at 23 °C (73 °F)</i> <i>post acc. weathering, at 23 °C (73 °F)</i>		55% 65% 55% 70%	85% 85% 50% 60%
Tear resistance		334 N (75 lbf)	267 N (60 lbf)
Dimensional stability		0.1%	
Static puncture resistance	ASTM D5602	249 N (56 lbf)	
Hardness, <i>Shore A</i>	ASTM D2240	87	
Water absorption, <i>at 100 °C (212 °F)</i>	ASTM D570	0.9%	
Water vapor permeance	ASTM E96	17.2 ng/s·m ² ·Pa (0.3 perms)	
Low temperature flexibility	ASTM D7264	-36.1 °C (-33 °F)	
Low temperature crack bridging	ASTM C1305	No cracks	
Self-ignition	ASTM D1929	400 °C (752 °F)	
Smoke density index	ASTM E84	150	
Rate of burning	ASTM D635	1.4 m/h (0,9 in/min)	
VOC content	EPA (Method 24)	< 5 g/L	

(All values are nominal)

STORAGE AND HANDLING

Always store the product indoors on pallets in a well-ventilated environment, at temperatures ranging from 13 °C to 27 °C (55 °F to 80 °F) away from heat, open flames, ignition sources, direct sunlight, and oxidizing agents. If storing the product temporarily outside for a very short period of time, cover it with a reflective tarp that allows for air circulation. The shelf life is approximately 12 months from the date of shipment when properly stored in its original container.

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



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