ALSAN RS
230 FLASH

TECHNICAL DATA SHEET 220203SCANE (supersedes 210322SCANE)

WATERPROOFING

APPLICATIONS

ROOFS

BALCONIE AND PLAZA-DECK

FOUNTAINS AND PONDS

DESCRIPTION

ALSAN RS 230 FLASH is a two-component polymethyl methacrylate-based (PMMA) liquid membrane. **ALSAN RS 230 FLASH** 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 FLASH** is supplied in standard colors of Pebble Grey and Bright White.

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 of 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 of 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 FLASH can be applied at substrate temperature between 15 °C (59 °F) and 50 °C (122 °F) and ambient temperature between 10 °C (50 °F) and 35 °C (95 °F).

Winter Formulation: ALSAN RS 230 FLASH 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

SUMMER FORMULATION			
Catalyst dosage per 12 kg container of resin used			
Temperature range	Catalyst activation	kg	tbsp[1]
10 °C to 20 °C (50 °F to 68 °F)	4 %	0.50	50
20 °C to 35 °C (68 °F to 95°F)	2 %	0.25	25
Catalyst dosage per each 1 liter (1.2 kg) of resin used			
Temperature range	Catalyst activation	kg	tbsp[1]
10 °C to 20 °C (50 °F to 68 °F)	4 %	0.050	5
20 °C to 35 °C (68 °F to 95°F)	2 %	0.025	2.5

WINTER FORMULATION			
Catalyst dosage per 12 kg container of resin used			
Temperature range	Catalyst activation	kg	tbsp[1]
-5 °C to 3 °C (23 °F to 37 °F)	6 %	0.70	70
3 °C to 10 °C (37 °F to 50 °F)	4 %	0.50	50
10 °C to 20 °C (50 °F to 68 °F)	2 %	0.25	25
Catalyst dosage per each 1 liter (1.2 kg) of resin used			
Temperature range	Catalyst activation	kg	tbsp[1]
-5 °C to 3 °C (23 °F to 37 °F)	6 %	0.07	7
3 °C to 10 °C (37 °F to 50 °F)	4 %	0.05	5
10 °C to 20 °C (50 °F to 68 °F)	2 %	0.025	2.5

[1] Each 0.01 kg of **ALSAN RS Catalyst Powder** equals approximately to a level 1-tablespoon size coop (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	90 -120 minutes	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.

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COVERAGE RATES[1]

SUBSTRATE PROFILE	12 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]	3.9 (42)	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]	3.7 (40)	3.3 (0.30)	2.3 (0.20)		2.7 (106)	1.9 (71)	
Granulated (CSP 5)[2]	3.2 (34)	3.8 (0.35)	2.8 (0.25)		3.1 (122)	2.3 (87)	
Rough (CSP 6)[2]	2.8 (30)	4.3 (0.40)	3.3 (0.30)		3.5 (140)	2.7 (105)	

(All values are nominal)
[1] Coverage rates for two (2) coats.
[2] CSP: *Concrete Surface Profile from ICRI* (*International Concrete Repair Institute*). Although **ALSAN RS 230 FLASH** 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.

PROPERTIES

PROPERTY	TEST METHOD	MD	XMD
Peak load at 23°C (73.4°F) control, kN/m (lbf/in)	ASTM D5147	12.3 (70)	10.5 (60)
Elongation at 23°C (73.4°F) control, %	ASTM D5147	55	70
Peak load at 23°C (73.4°F) post heat aging, kN/m (lbf/in)	ASTM D5147	12.3 (70)	12.3 (70)
Elongation at 23°C (73.4°F) post heat aging, %	ASTM D5147	50	50
Peak load at 23°C (73.4°F) post acc. weathering, kN/m (lbf/in)	ASTM D5147	13.1 (75)	13.1 (75)
Elongation at 23°C (73.4°F) post acc. weathering, %	ASTM D5147	55	55
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	60	85
Tear resistance, N (lbf)	ASTM D5147	356 (80)	311 (70)
Dimensional stability, %	ASTM D5147	0.1	0
Static puncture resistance, N (lbf)	ASTM D5602	Pass 249 (56)	
Shore A hardness, durometer	ASTM D2240	70	
Water absorption, at 100°C (212°F), %	ASTM D570	0.8	
Water vapor permeance, ng•s^{-1}•m^{-2}•Pa^{-1} (perms)	ASTM E96	11.49 (0.2)	
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)	

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SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

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PROPERTY	TEST METHOD	MD	XMD
Smoke density index	ASTM E84	105	
Rate of burning, m/hr (in/min)	ASTM D635	1.4 (0.9)	

PACKAGING

ALSAN RS 230 FLASH resin is supplied in a 12 kg resealable container with locking ring.

STORAGE AND HANDLING

Shelf life: 12 months in original unopened containers.

Always store closed containers in cool, ventilated and dry locations away from heat and oxidizing agents. Do not store in direct sunlight or in temperatures below 0°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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