

ALSAN RS 230 FLASH

 TECHNICAL DATA SHEET
160310SCAN2E
 (supersedes 141128SCAN1E)

DESCRIPTION

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

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 additional information. **To complete the installation, please refer to ALSAN RS FLEECE technical data sheet.**

Summer Formulation			
Catalyst Mixing Chart			
Catalyst dosage per 12 kg container of resin used			
Temperature range	Catalyst activation	kg	tbsp*
15 °C to 18 °C (59°F to 64°F)	4 %	0.48	48
18 °C to 40 °C (64°F to 104°F)	2 %	0.24	24
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 12 kg container of resin used			
Temperature range	Catalyst activation	kg	tbsp*
-5 °C to 10 °C (23 °F to 50 °F)	4 %	0.48	48
10 °C to 20 °C (50 °F to 68 °F)	2 %	0.24	24
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 FLASH** 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 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).



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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 / m ²	kg / ft ²	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: 4 m² (43 ft²)

PROPERTIES

Property	Test method	ALSAN RS 230 FLASH
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)

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

PACKAGING

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

STORAGE & HANDLING

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

