

ALSAN RS 233 SELF-LEVELING MORTAR

TECHNICAL DATA SHEET 220214SCANE

(supersedes 200827SCANE)



COMPLEMENTARY PRODUCTS

APPLICATIONS

ROOFING

BALCONIES

ADDITIONAL EXPERTISE

DESCRIPTION

ALSAN RS 233 SELF-LEVELING MORTAR is a two-component polymethyl methacrylate-based (PMMA) self-leveling mortar. ALSAN RS 233 SELF-LEVELING MORTAR is used to level rough surfaces in conjunction with ALSAN RS systems. ALSAN RS 233 SELF-LEVELING MORTAR is composed of ALSAN RS 210 resin and ALSAN RS 223 Mixing Powder.

COLOUR: ALSAN RS 233 SELF-LEVELING MORTAR is supplied in a standard colour of Pebble Grey.

SURFACE PREPARATION

Surface 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 ALSAN RS 210 resin for two minutes before each use. Into a larger container, slowly add ALSAN RS 223 Mixing Powder to the resin while mixing; continue mixing for 2 to 5 minutes.

Mixing ratio of ALSAN RS 210 resin is one pail (10 kg (22 lbs)) to one bag (23 kg (50.7 lb)) of ALSAN RS 223 Mixing Powder. Catalyze with ALSAN RS CATALYST, only the amount of resin that can be used within 10-15 minutes.

Add pre-measured ALSAN RS CATALYST to the resin component, stir for two minutes and apply to substrate. The amount of catalyst added is based ONLY on the weight of the ALSAN RS 210 resin used, and not the entire batch (resin + filler) weight.

Refer to Catalyst Mixing Chart for additional information.

APPLICATION: After mixing, apply resin to clean and prepared substrate at the required consumption using rollers 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.

CATALYST MIXING CHART

SUMMER FORMULATION			
Temperature range	Catalyst activation	kg	tbsp*
Catalyst dosage per 10 kg container of resin used			
5 °C to 10 °C (41 °F to 50 °F)	4 %	0.40	40
10 °C to 35 °C (50 °F to 95 °F)	2 %	0.20	20
Catalyst dosage per each 1 liter (1.2 kg) of resin used			
5 °C to 10 °C (41 °F to 50 °F)	4 %	0.04	4
10 °C to 35 °C (50 °F to 95 °F)	2 %	0.02	2

WINTER FORMULATION			
Temperature range	Catalyst activation	kg	tbsp*
Catalyst dosage per 10 kg container of resin used			
-5 °C to 8 °C (23 °F to 46 °F)	4 %	0.40	40
8 °C to 15 °C (46 °F to 59 °F)	2 %	0.20	20
Catalyst dosage per each 1 liter (1.2 kg) of resin used			
-5 °C to 8 °C (23 °F to 46 °F)	4 %	0.04	4
8 °C to 15 °C (46 °F to 59 °F)	2 %	0.02	2

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



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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.

TDS_ALSAN_RS_233_SELF_LEVELING_MORTAR.indd

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REACTION TIMES

	SUMMER FORMULATION	WINTER FORMULATION
	Ambient temperature : 20 °C (68 °F)	
Pot life	15 minutes	20 minutes
Rain proof after	30 minutes	45 minutes
Set time / walked on / next layer	60 minutes	90 minutes
Fully cured	3 hours	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

SUBSTRATE PROFILE	CONSUMPTION ² PER 33 KG UNIT m ² (ft ²)	TOTAL THICKNESS mm (mil)
Smooth to CSP 3 ¹	7.4 (80)	2.0 (79)
CSP 4 ¹	7.2 (77)	2.1 (83)
Rough to CSP 5 ¹	6.9 (74)	2.2 (87)

1- CPS : Concrete Surface Profile

2- Coverage rates are approximate and may vary depending on substrate conditions and the application technique. The above data may vary by +/- 10%.

PACKAGING

ALSAN RS 233 SELF-LEVELING MORTAR resin is supplied in two parts:

ALSAN RS 210 resin is supplied in a 10 kg (22 lb) resealable container with locking ring.

ALSAN RS 223 Mixing Powder is supplied in a 23 kg (50.7 lb) bag.

STORAGE AND HANDLING

Always store closed containers in cool, ventilated and dry locations away from heat and oxidizing agents. Do not store in direct sunlight or at temperatures below 0°C (32°F) or above 25°C (77°F). Approximate shelf life is twelve months from date of shipment when properly stored, sealed and unmixed.

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

PROPERTIES

PROPERTY	STANDARD	ALSAN RS 233 SELF-LEVELING MORTAR
Mix density at 23°C (73.4°F), g/ml (lb/gal)	ASTM D1475	8.5 (1.02)
Viscosity, stormer type at 25°C (77°F), cps (KU)	ASTM D562 (Method A)	690 (77)
Indentation hardness at 23°C (73.4°F), Shore A	ASTM D2240	91
Abrasion resistance, 101 mm (4 in.) disc, mg (lb)	ASTM D4060	203 (0.00045)

* All data is represented by averages, unless noted otherwise.

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



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