

ALSAN FLOOR EP

TECHNICAL DATA SHEET 181218SCANE

(supersedes 181205SCANE)



ACCESSORY PRODUCTS

APPLICATIONS

INDOOR APPLICATIONS

DESCRIPTION

ALSAN FLOOR EP is a 100% solids, two-component epoxy system with low odour and low volatile organic compound (VOC) concentration.

ALSAN FLOOR EP is designed for indoor applications over concrete substrate. Depending on the desired use and look, this system offers various combinations of the following elements:

ALSAN FLOOR EP 101, a vapour barrier and an epoxy primer.

ALSAN FLOOR EP 800 (801 to 805), an epoxy self-leveling products with several colours. Colours are the following: grey, dark grey, pebble grey, white and beige.

ALSAN FLOOR EP 900 (901 to 905), an epoxy finish coats with several colours. Colours are the following: grey, dark grey, pebble grey, white and beige.

ALSAN FLOOR EP 951, a clear epoxy top coat.

SURFACE PREPARATION

1. Before installing the system, concrete must be completely cured (28 days) with a minimum hardness of 24 MPa (3,500 psi). The surface must be sound, clean and free of debris and dust.
2. Concrete surface must be prepared to obtain a ICRI CSP profile of 3 or 4. The shot blasting method is recommended to obtain such a profile.
3. Concrete substrate should have a maximum internal moisture content of 98 % RH (ASTM F2170) and 0.5 kg/100 m²/24 h (ASTM F1869). It must be prepared as required to provide proper adhesion of the membrane system to the substrate with a minimum bond strength of 1.4 MPa (200 psi) as per CAN/CSA-A23.1-04/A23.2-04 section 6B.
4. Cracks that are wider than 1/16" (1.6 mm) must be repaired with **SOPRASEAL SEALANT**.
5. All upstands (walls, columns, etc) must also be prepared with **SOPRASEAL SEALANT**.
6. Where needed, concrete should be repaired with a mix of **ALSAN TRAFIK EP 101** and silica sand (#70) .

APPLICATION

1. Once the surface is well prepared, apply primer **ALSAN FLOOR EP 101** by using a roller or a flat squeegee. Mix the contents of Part A for 2 to 3 minutes, then add Part B. Mix again for 2 to 3 minutes until you obtain a homogeneous consistency, and immediately pour the mixture onto the substrate. Pot life after mixing is 20 minutes at 22 °C (72 °F). It must be dry and tack free before applying the next coat (maximum recoat window: 72 h). It is then possible to continue with **ALSAN FLOOR EP 800 (801 to 805)** self-leveling coat or directly apply **ALSAN FLOOR 900 (901 to 905)** top coat with silica sand for anti-slip properties.
2. When **ALSAN FLOOR EP 101** primer is completely dry, apply **ALSAN FLOOR EP 800 (801 to 805)** self-levelling coat with a 6 mm (3/16 in) notched squeegee. Mix the contents of Part A for 3 to 5 minutes, then add Part B. Mix again for 2 to 3 minutes until you obtain a homogeneous consistency, and immediately pour the mixture onto the substrate. Pot life after mixing is 65 to 85 minutes at 22 °C (72 °F). The self-levelling layer must be dry and tack free before applying the next coat (maximum recoat window: 72 h).



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ACCESSORY PRODUCTS

APPLICATIONS

INDOOR APPLICATIONS

3. Once **ALSAN FLOOR EP 101** primer or **ALSAN FLOOR EP 800 (801 to 805)** self-leveling coat is completely dry, apply the coloured **ALSAN FLOOR EP 900 (901 to 905)** top coat with a roller or a flat squeegee. Mix the contents of Part A for 3 to 5 minutes, then add Part B. Mix again for 2 to 3 minutes until you obtain a homogeneous consistency, and immediately pour the mixture onto the substrate. Pot life after mixing is 75 minutes to 2 hours at 22 °C (72 °F). For an anti-slip finish, broadcast silica sand over the wet coloured finish coating.

4. It is possible to add **DECO FLAKES** or **COLOUR QUARTZ** to the coloured **ALSAN FLOOR EP 900 (901 to 905)** top coat. These additions must be broadcast on the wet coloured top coat. If one of these options is considered, a clear **ALSAN FLOOR EP 951** top coat must be applied when the **ALSAN FLOOR EP 900 (901 to 905)** is completely dry (maximum time to apply the next coat: 72 h).

5. Apply the clear **ALSAN FLOOR EP 951** top coat on the dry coloured **ALSAN FLOOR EP 900 (901 to 905)**, with a roller or flat squeegee. Mix the contents of Part A for 2 to 3 minutes, then add Part B. Mix again for 2 to 3 minutes until you obtain a homogeneous consistency, and immediately pour the mixture onto the substrate. Pot life after mixing is 2 hours at 22 °C (72 °F).

When all coats of the chosen system are applied, wait 72 hours to walk on the surface.

WARNING : in order to reduce the **risks of severe burns** due to the high temperature during the exotherm (the mix of Part A and B), IT IS STRONGLY RECOMMENDED TO IMMEDIATELY POUR THE MIXTURE ONTO THE SUBSTRATE AFTER HAVING MIXED THE TWO PARTS.

Note: Room and substrate temperature should be at **10 °C (50 °F) minimum** during application and curing of the products:

- Higher temperatures accelerate both pot life and curing times;
- Lower temperatures delay pot life but lengthen significantly curing times.

Adapt application techniques as per environment conditions.

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



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INDOOR APPLICATIONS

PACKAGING

Specifications	PRIMER: ALSAN FLOOR EP 101		SELF-LEVELING COATING: ALSAN FLOOR EP 800					COLOURED FINISH COAT: ALSAN FLOOR EP 900					CLEAR FINISH COAT: ALSAN FLOOR EP 951
Physical state	Liquid		Self-leveling liquid					Liquid					Liquid
Product	101		801	802	803	804	805	901	902	903	904	905	951
Colour	Part A	Clear	Grey	Dark grey	Pebble grey	White	Beige	Grey	Dark grey	Pebble grey	White	Beige	Clear
	Part B	Yellowish											Clear
Specific gravity @ 25 °C (77 °F)													
	Part A	1.14 kg/L	1.28 kg/L		1.28 kg/L		1.30 kg/L		1.19 kg/L		1.15 kg/L		
	Part B	1.02 kg/L	1.00 kg/L		1.00 kg/L		0.99 kg/L		0.99 kg/L		0.92 kg/L		
Packaging	Part A	2.33 L	12.6 L	12.6 L		11.7 L		12.9 L		10.9 L		12.6 L	
	Part B	1.17 L	6.3 L	5.9 L		5.9 L		6.2 L		6.2 L		6.3 L	
	Total	3.5 L	18.9 L	18.5 L		17.6 L		18.5 L		17.1 L		18.9 L	
Coverage	Per 3.5 L : 10 à 14 m ² (105 à 150 pi ²) Per 18.9 L : 72 m ² (780 ft ²) Wet film thickness: 254 µm (10 mils)		Mix of A+ B = 29m ² (310 ft ²) Wet film thickness: 635 µm (25 mils)		Mix of A+ B = 28 m ² (300 ft ²) Wet film thickness: 635 µm (25 mils)		Mix of A+ B = 54m ² (585 ft ²) Wet film thickness: 254 µm (10 mils)		Mix of A+ B = 50m ² (540 ft ²) Wet film thickness: 254µm (10 mils)		Mix of A+ B = 63 m ² (680 ft ²) Wet film thickness: 635 µm (12 mils)		

* Primer ALSAN FLOOR EP 101 coverage may vary from 54 m² to 72 m² (580 ft² to 780 ft²) depending of concrete porosity.

Note: All coverage rates are approximate and may vary due to the application technique and surface roughness.



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INDOOR APPLICATIONS

PROPERTIES

PROPERTIES	Standards	PRIMER: ALSAN FLOOR EP 101	SELF-LEVELLING COATING: ALSAN FLOOR EP 800		COLOURED FINISH COAT: ALSAN FLOOR EP 900		CLEAR FINISH COAT: ALSAN FLOOR EP 951
Product	-	101	801 to 803	804 and 805	901 to 903	904 and 905	951
Brookfield viscosity @ 25 °C (77 °F)							
Part A	-	870 cP	1400 cP	3000 cP	2700 cP	5000 cP	1600 cP
Part B	-	2150 cP	770 cP	770 cP	500 cP	500 cP	85 cP
Solids by weight	-	100 %					
Bond strength	CAN/CSA- A23.1-04/ A23.2-04 Section 6B	> 2 MPa	> 2 MPa	> 2 MPa	> 2 MPa	> 2 MPa	> 2 MPa
Hardness (Shore D)	ASTM D2240	76	70		78		87
Abrasion resistance (weight loss)	ASTM D4060	-	-	-	50 mg	95 mg	35 mg
Pot life @ 22 °C (72 °F)	-	20 min	65 min	85 min	75 min	2 h	2 h
Fully cured @ 22 °C (72 °F)	-	3 h	7 h	9 h	14 h		8 h

(All values are nominal)

CLEANING

Tools can be cleaned with **ALSAN RS CLEANER** or petroleum solvents (mineral spirits, Varsol, xylene, etc.).

STORAGE AND HANDLING

Shelf life of **ALSAN FLOOR EP** is 18 months, when properly stored in original unopened containers. Containers **MUST NEVER BE STORED AT TEMPERATURES BELOW 10 °C (50 °F)**.

ALSAN FLOOR EP system products are irritant, corrosive, and flammable. Store in a cool and dry area. Use in a well ventilated area, far from any open flame. Avoid breathing solvent vapours and prolonged skin contact.



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INSPECTION AND PREVENTIVE MAINTENANCE GUIDE

To extend the lifetime of **ALSAN** epoxy flooring coatings, a proper maintenance schedule must be followed and the floors have to be cleaned on a regular basis. It is however recommended to clean and inspect the epoxy floor at least every six months. If traffic is more frequent, we advise doing it more regularly. Thoroughly clean surfaces with a mop, floor-cleaning machine or high-pressure washer and biodegradable detergent to remove dirt, debris, oil, and grease. Pressure washing machines should not have an outlet pressure of more than 1,000 psi. Start at the lowest pressure setting and gradually increase until the desired result is achieved.

Avoid using solvents or other highly abrasive cleaning agents. Instead, use neutral floor cleaners or a mildly alkaline detergent depending on the nature of the accumulated dirt.

Spills of any chemical, liquid or powder, should be wiped, absorbed and removed as soon as possible to ensure longevity of the coating. Once the spills are removed from the floor, clean the floor with the recommended products.

For dirty stains or surfaces, gently use sponges like the "Red scrubbing pads" before using more aggressive cleaning disc such as microfibre sponges.

* **WARNING:** Never use products made of acetone, xylene or toluene. These products may soften and stain your coating.

Visually inspect the floor and look for any wear or cracks. Check all entrances, the perimeter of drains and expansion joints to ensure they are properly sealed. At the junction between the epoxy floor and adjacent flooring, check to see if excessive structural movement may have caused cracking in the floor covering.

If premature wear or cracks are found, please contact your applicator so that repairs can be made quickly.

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



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