

ALSAN FLOOR EP 440

TECHNICAL DATA SHEET 220322SCANE

(Supersedes 210414SCANE)



WATERPROOFING

APPLICATIONS

INTERIOR APPLICATIONS

PARKING DECKS

DESCRIPTION

ALSAN FLOOR EP 440 is a coloured two-component epoxy finish coating that has been formulated for the protection of interior concrete floors. This high solid content resin (100 %) is self-levelling and provides a smooth, glossy, and durable finish.

For more information on the colors available, please refer to the Color Chart on page 4.

SURFACE PREPARATION

ALSAN FLOOR EP 440 is applied on **ALSAN FLOOR EP 101** primer in **ALSAN FLOOR EP** flooring systems. For **ALSAN TRAFIK** waterproofing systems, **ALSAN FLOOR EP 440** is applied on **ALSAN TRAFIK HP** waterproofing membrane.

Before applying **ALSAN FLOOR EP 440**, make sure the substrate, primer or waterproofing membrane is dry, clean, and free of debris, dust and other contaminants.

NOTE: Even though SOPREMA recommends the use of a primer, **ALSAN FLOOR EP 440** can be installed directly on the concrete substrate. This type of application requires two coats of coloured resin. If this option is considered, concrete must be completely cured (28 days) with a minimum hardness of 24 MPa (3,500 psi). 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.

APPLICATION

1. Stir the contents of Part A and Part B separately for 2 to 3 minutes. Add Part B to Part A, making sure to incorporate the entire contents. Then mix together for 2 to 3 minutes to obtain a homogeneous consistency and immediately pour the mixture onto the substrate.

Apply **ALSAN FLOOR EP 440** coloured topcoat with a roller or a flat squeegee.

For flooring and waterproofing systems, apply a thickness of 15 to 20 mils (381 to 508 µm) for a smooth finish.

For a non-slip finish, sprinkle silica sand on the wet, coloured topcoat.

The pot life of the mix is 1 hour at 20 °C (68 °F) and 30 minutes at 30 °C (86 °F).

2. It is possible to add chips or quartz aggregates to the **ALSAN FLOOR EP 440** coloured topcoat for a more aesthetic finish.

These additions should be sprinkled on the coloured topcoat while it is still wet. The layer, thus far liquid, must then be leveled using a roller to properly encapsulate the chips or aggregates.

If the vinyl flakes or quartz aggregates have been applied at saturation, remove the excess when the product is dry with a broom or vacuum before applying the topcoat.

If any of these options are being considered, an **ALSAN FLOOR EP 951** clear topcoat must be applied when **ALSAN FLOOR EP 440** is completely dry (maximum covering time: 72 hours).

3. It is possible to use **ALSAN FLOOR EP 440** with **ALSAN TF 801** to create a crack filler or to give an "orange peel" texture.

Refer to the **ALSAN TF 801** technical data sheet for more information.



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NOTE: - Ambient temperature and that of the substrate must be at a minimum of 10 °C (50 °F) during the application and curing of the product.

- High temperature will significantly shorten pot life and drying time.
- Low temperature will significantly extend pot life and drying time.
- Adjust application techniques according to surrounding conditions.

WARNING: In order to reduce the risk of burns caused by the high temperature generated by the exothermic reaction (when mixing Parts A and B), IT IS STRONGLY RECOMMENDED TO POUR THE MIX IMMEDIATELY ONTO THE SUBSTRATE AFTER MIXING THE TWO PARTS.

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

PACKAGING

Specifications		ALSAN FLOOR EP 440
Physical state		Liquid and self-leveling
Color	(Part A) (Part B)	Variable (refer to the color chart) Clear to amber
Solids by weight		100 %
Volume ratio		2 : 1
Volume	(Part A) (Part B) Total (A+B)	12.4 L 6.2 L 18.6 L
Coverage (for 18.6 L kit)	15 mils 20 mils	520 ft ² (48.2 m ²) 390 ft ² (36.1 m ²)

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



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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.

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PROPERTIES

Properties	Standards	ALSAN FLOOR EP 440
Density at 25 °C (77 °F)	(Part A) (Part B) ASTM D891	1.21 - 1.31 kg/L 0.98 kg/L
Viscosity at 25 °C (77 °F)	(Part A) (Part B) Brookfield	3000 cP 500 cP
V.O.C.	-	< 29 g/L
Bond strength	ASTM D7234	> 2 MPa
Hardness (Shore D)	ASTM D2240	> 70
Abrasion resistance (loss of mass for 1000 cycles , CS17 wheel, weight: 1000 g)	ASTM D4060	65-120 mg
Compressive strength	ASTM D695	> 62 MPa
Water absorption	ASTM D570	0.20 %
Resistance to fungi growth	ASTM G21	Rated 1
Resistance to mold growth 14 days 28 days	ASTM D3273	Rated 10 Rated 9
Impact resistance	MIL D-3134	Pass
Pot life, 50% RH	(at 20 °C [68 °F]) (at 30 °C [86 °F]) -	1 h 30 min
Fully cured, 50% RH	(at 20 °C [68 °F]) (at 30 °C [86 °F]) -	12 h 6 h

(All values are nominal)

CLEANING

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

STORAGE AND HANDLING

The shelf life of **ALSAN FLOOR EP 440** is 18 months, when properly kept in the original container.

Containers must be stored in a cool, dry place away from any flame. The product is harmful if inhaled, ingested or in contact with the skin.

Containers must **NEVER BE STORED AT TEMPERATURES BELOW 10 °C (50 °F)**.

ALSAN FLOOR EP 440 PRODUCTS ARE CORROSIVE AND IRRITANTS.

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



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COLOR CHART

Sample	RAL color code	Color	Product code
	7004	Signal Grey	32321
	7011	Dark grey	32311
	7032	Pebble grey	32312
	7038	Agate Grey	32320
	7040	Light Grey	32309
	7046	Telegrey 2	32323
	7047	Telegrey 4	32322
	9005	Black	32314
	9016	White	32313
	1023	Traffic yellow	32316
	3020	Traffic Red	32317
	5005	Signal Blue	32318
	6024	Traffic Green	32319



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