

# ALSAN FLOOR EP 440

TECHNICAL DATA SHEET 210125SCANE

(supersedes - )



WATERPROOFING

APPLICATIONS

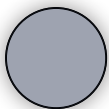
INTERIOR APPLICATIONS

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.

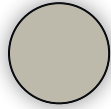
## COLORS :



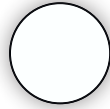
Light Grey  
RAL 7040



Dark grey  
RAL 7011



Pebble grey  
RAL 7032



White  
RAL 9016



Black  
RAL 9005

## 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).



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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)	Light grey	Dark grey	Pebble grey	White	Black
	(Part B)	Clear to amber				
RAL color code		RAL 7040	RAL 7011	RAL 7032	RAL 9016	RAL 9005
Product code		32309	32311	32312	32313	32314
Solids by weight	100 %					
Volume ratio	2 : 1					
Volume	(Part A)	12.4 L				
	(Part B)	6.2 L				
	Total (A+B)	18.6 L				
Coverage (for 18.6 L kit)	15 mils	520 ft <sup>2</sup> (48.2 m <sup>2</sup> )				
	20 mils	390 ft <sup>2</sup> (36.1 m <sup>2</sup> )				

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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## PROPERTIES

Properties	Standards	ALSAN FLOOR EP 440				
		Light grey	Dark grey	Pebble grey	White	Black
Density @ 25 °C (77 °F)	(Part A) ASTM D891	1.25 kg/L	1.23 kg/L	1.27 kg/L	1.31 kg/L	1.22 kg/L
	(Part B)	0.98 kg/L				
Viscosity @ 25 °C (77 °F)	(Part A) 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 %				
Pot life, 50% RH	(@ 20 °C [68 °F]) - (@ 30 °C [86 °F])				1 h	30 min
Fully cured, 50% RH	(@ 20 °C [68 °F]) - (@ 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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