



WATERPROOFING

APPLICATIONS

PARKING DECKS

# ALSAN TRAFIK HP 500 PARKING DECK

TECHNICAL DATA SHEET 180917SCANE

(supersedes 180806SCANE)

## DESCRIPTION

ALSAN TRAFIK HP 500 traffic coating system is a polyurethane membrane designed to waterproof vehicular and pedestrian traffic areas on concrete decks. It can also be installed on concrete decks for balconies. This system is composed of three products for light pedestrian traffic and four products for vehicular traffic:

ALSAN TRAFIK HP 515 is a two-component polyurethane resin used as a primer on concrete or, it is also possible to apply ALSAN FLOOR EP 101, a two-component epoxy primer and vapour barrier with low odour and low volatile organic compound (VOC) concentration. It is used as vapour barrier primer on slab on grade (see ALSAN FLOOR EP technical data sheet for more information).

ALSAN TRAFIK HP 520 (mixed with ALSAN ACCELERATOR) is a single component polyurethane resin waterproofing membrane.

ALSAN TRAFIK HP 530 is a single component polyurethane resin wear coat. It is installed in one or more layers depending on the traffic density.

ALSAN TRAFIK HP 540 is a single component aliphatic polyurethane resin finish coat.

\*ALSAN TRAFIK HP 500 system is approved by Canadian Food Inspection Agency.

## RECOMMENDED SUBSTRATES

ALSAN TRAFIK HP 500 traffic coating system must be used on structural concrete substrate. Not suitable to be applied on plywood substrate.

## SURFACE PREPARATION

1. Concrete must be fully cured (28 days) with a minimum hardness of 24 MPa (3500 psi). Surface needs to be sound, clean and free of dust or debris.
2. Concrete surface must be prepared to obtain concrete surface profile (ICRI CSP) of 3 or 4. To obtain such a profile, the use of special equipment such as shot blasting is recommended.
3. Concrete substrate should have a maximum moisture content of 1.5 kg/100 m<sup>2</sup>/24 h (ASTM F1869) and internal content of 75 % RH (ASTM F2170) and 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 (or ASTM D 7234).
4. Cracks of more than 1.6 mm (1/16 in) width need to be repaired with SOPRASEAL SEALANT.
5. When needed, concrete reparation must be done with a mix of ALSAN FLOOR EP 101 and silica fume or with appropriate products.

## APPLICATION

1. Surface will be primed with ALSAN TRAFIK HP 515 using a roller or a flat squeegee (ALSAN FLOOR EP 101 primer can also be used with the same application method). Remove the lid, remove the plastic insert (part B) and pour the entire content into part A. Then, the two parts are mixed thoroughly for at least 2 to 3 minutes for an homogeneous consistency and pour immediately the mix onto substrate. Pot life after mixing is 50 minutes at 20 °C (68 °F). It must be dry and tack free before applying ALSAN TRAFIK HP 520 (maximum recoat window: 36 h).



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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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2. Once primer ALSAN TRAFIK HP 515 or ALSAN FLOOR EP 101 is completely dry, incorporate ALSAN ACCELERATOR into ALSAN TRAFIK HP 520 container and mix for at least 2 to 3 minutes. Apply ALSAN TRAFIK HP 520 with a 6 mm (3/16 in) notched squeegee. Back roll the surface to level.

3. Once ALSAN TRAFIK HP 520 is completely dry (minimum 12 hours), apply ALSAN TRAFIK HP 530 (maximum recoat window: 36 h) with a roller. Spread aggregates to create a non-slip surface once the installation is completed and while the surface is still wet, roll the ALSAN TRAFIK HP 530 to well encapsulate the aggregates. In ramps, spread aggregates at refusal and remove excess after curing before installing second layer of ALSAN TRAFIK HP 530 (heavy duty traffic). Second layer coverage rate of ALSAN TRAFIK HP 530 will drop considerably.

4. Once the last coat of ALSAN TRAFIK HP 530 is completely dry (minimum 6 hours), apply the transparent finish coat of ALSAN TRAFIK HP 540 with a roller (maximum recoat window: 36 h). ALSAN TRAFIK HP 540 can be coloured with ALSAN TRAFIK HP COLORANT (see product technical data sheet).

Traffic is allowed 72 hours after the installation of ALSAN TRAFIK HP 540.

For proper curing, minimum application temperature is 5 °C (41 °F). The above drying times are for ideal application conditions, 22 °C (72 °F) and 50 % relative humidity. Drying times are longer at lower temperature and/or with lower relative humidity.

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

## PACKAGING

Specifications	PRIMER: ALSAN TRAFIK HP 515	MEMBRANE: ALSAN TRAFIK HP 520	WEAR COAT: ALSAN TRAFIK HP 530	FINISH COAT: ALSAN TRAFIK HP 540
Physical state	Liquid	Self-leveling liquid	Self-leveling liquid	Liquid
Colour	Part A: Transparent Part B: Brownish	Grey	Grey, Dark Grey	Transparent
Specific gravity @ 25 °C (77 °F)	Part A: 0.95 kg/L Part B: 1.22 kg/L	1,12 kg/L	1,08 kg/L	0,98 kg/L
Packaging	Part A: 4.1L Part B: 3L	19 L	19 L	19 L
Coverage	Mix of A+B (7.1L): 56 m <sup>2</sup> (600 ft <sup>2</sup> ) Wet film thickness 125 µm (5 mils).	28 m <sup>2</sup> (300 ft <sup>2</sup> )/pail Wet film thickness 700 µm (28 mils).	56 m <sup>2</sup> (600 ft <sup>2</sup> )/pail, per coat Wet film thickness 300 µm (13 mils).	70 m <sup>2</sup> (750 ft <sup>2</sup> )/pail Wet film thickness 250 µm (10 mils).

\* Primer (515) coverage may vary from 37 m<sup>2</sup> to 56 m<sup>2</sup> (400 ft<sup>2</sup> to 600 ft<sup>2</sup>) 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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## PROPERTIES

ALSAN TRAFIK HP 500 meets the Low Temperature Crack Bridging requirements of the ASTM C957 standard.

ALSAN TRAFIK HP 500 meets C1202 (or AASHTO T277) standard.

PROPERTIES	STANDARDS	PRIMER: ALSAN TRAFIK HP 515	MEMBRANE: ALSAN TRAFIK HP 520	WEAR COAT: ALSAN TRAFIK HP 530	FINISH COAT: ALSAN TRAFIK HP 540
Brookfield viscosity @ 25 °C (77 °F)	-	Part A: 250 cP Part B: 125 cP	1500 - 3500 cP	2000 cP	250 cP
Solids by weight	-	100 %	75 %	72 %	66 %
Ultimate elongation	ASTM D412	---	600 %	500 %	100 %
Tensile strength	ASTM D412	---	8 MPa	13 MPa	13 MPa
Bond strength	CAN/CSA- A23.1-04/ A23.2-04 Section 6B	> 3 MPa	---	---	---
Hardness (Shore A)	ASTM D2240	---	80	96	> 100
Pot life @ 22 °C (72 °F)	-	50 min	---	---	---
Fully cured	-	8h 6h 2h 1h	---	---	---
		0 °C (32 °F) 5 °C (41 °F) 22 °C (72 °F) 30 °C (86 °F)			

(All values are nominal)

## STORAGE AND HANDLING

Shelf life of ALSAN TRAFIK HP is 18 months, when properly stored in original unopened containers. Containers **MUST NEVER BE STORED AT TEMPERATURES BELOW 10 °C (50 °F)**. Avoid breathing solvent vapours and prolonged skin contact.

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



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