ALSAN TRAFIK HP 500 ZERO
PARKING DECK

TECHNICAL DATA SHEET 180917SCANE (supersedes 180806SCANE)

WATERPROOFING

APPLICATIONS

PARKING DECKS

DESCRIPTION

ALSAN TRAFIK HP 500 ZERO is a two-component polyurethane membrane system, volatile organic compounds (VOC) free, low-odour and 100 % solids. This system is composed of:

ALSAN TRAFIK HP 515 is a two-component polyurethane resin used as a primer on concrete.
ALSAN FLOOR EP 101 is a two-component epoxy primer and vapour barrier, used as primer and vapour barrier on slab on grade.
ALSAN TRAFIK HP 525 is a two-component moisture cure polyurethane resin used as waterproofing membrane.
ALSAN TRAFIK HP 535 is a two-component polyurethane aliphatic resin, used as wearing course. It is installed in one or more layers depending on
the traffic intensity. It is also used as a finish coat.
ALSAN TRAFIK HP 535 COLOUR BASE is a two-component polyurethane resin, used as a finish coat when a colourant is added.

*ALSAN TRAFIK HP 500 ZERO system is approved by Canadian Food Inpection Agency.

RECOMMENDED SUBSTRATES

ALSAN TRAFIK HP 500 ZERO 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 internal moisture content of 75 % RH (ASTM F2170) and 1.5 kg/100 m²/24 h (ASTM F1869) 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. All upstands (walls, columns, etc) must also be prepared with SOPRASEAL SEALANT (see detail TRAFIKZERO-03 on our website).

6. 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 and pour the entire content into the resin found under the insert. 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 525 (maximum recoat window: 36 h).

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2. Once primer **ALSAN TRAFIK HP 515 or ALSAN FLOOR EP 101** is completely dry, apply **ALSAN TRAFIK HP 525** with a 6 mm (3/16 in) notched squeegee. Remove the lid and remove plastic insert. Premix the resin found under the insert for 2-3 minutes. Then pour the entire insert content into the premixed resin and mix thoroughly for at least 2 to 3 minutes for an homogeneous consistency and pour immediately the mix onto substrate. Back roll the surface to level.

3. Once **ALSAN TRAFIK HP 525** is completely dry, apply **ALSAN TRAFIK HP 535** (maximum recoat window: 36 h) with a roller. Remove the lid and remove the plastic insert. Premix the resin found under the insert for 2-3 minutes. Then pour the entire insert content into the premixed resind and mix 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). Spread aggregates to create a non-slip surface while the resin is still wet, use a roller to fully encapsulate the aggregates in **ALSAN TRAFIK HP 535**. In ramps, spread aggregates at refusal in the first layer and remove excess after curing before installing second layer of **ALSAN TRAFIK HP 535** (heavy traffic). In the second layer, broadcast aggregates. Second layer coverage rate of **ALSAN TRAFIK HP 535** would be reduced at least by half. **ALSAN TRAFIK HP 535 COLOUR BASE** 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 535.**

Note: For proper curing, minimum application temperature is 5°C (41°F) and it must be maintained for the length of curing process. The above drying times are for ideal application conditions 20°C (68°F) and 50% relative humidity. Drying time are longer at lower temperatures and/or 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 525	WEAR + FINISH COAT: ALSAN TRAFIK HP 535
Physical state	Liquid	Self-levelling liquid	Self-levelling liquid
Colour Part A Part B	 Clear Brownish	 Amber Grey	 Grey, dark grey Clear
Specific gravity @ 25 °C (77 °F) Part A Part B	 0.95 kg/L 1.22 kg/L	 1.06 kg/L 1.28 kg/L	 1.19 kg/L 1.09 kg/L
Packaging with insert Part A Part B	 4.1 L 3.0 L	 2.0 L 14.9 L	 5.6 L 3.0 L
Coverage	Mix: 28 m² (300 ft²)* Wet film thickness of 250 µm (10 mils) 3.9 m² / L (160 ft² / gal)	Mix: 34 m² (365 ft²) Wet film thickness of 508 µm (20 mils) 2.0 m² / L (80 ft² / gal)	Mix: 24 m² (260 ft²) Ramps 2nd coat 12 m² (130 ft²) Wet film thickness of 355 µm (14 mils) 2.8 m² / L (115 ft² / gal)

* Primer (515) coverage may vary from 20 m² to 28 m² (215 ft² to 300 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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PROPERTIES

ALSAN TRAFIK HP 500 ZERO meets the Low Temperature Crack Bridging requirements of the ASTM C957 standard.
ALSAN TRAFIK HP 500 ZERO meets C1202 (or AASHTO T277) standard.

PROPERTIES	Standards	PRIMER: ALSAN TRAFIK HP 515	MEMBRANE: ALSAN TRAFIK HP 525	WEAR COAT : ALSAN TRAFIK HP 535
Brookfield viscosity @ 25 °C (77 °F) Part A Part B	-	 250 cP 125 cP	 20 cP 7200 cP	 2200 cP 900 cP
Solids by weight	-	100 %	100 %	100 %
Ultimate elongation	ASTM D412	---	> 500 %	> 100 %
Tensile strengh	ASTM D412	---	> 4.0 MPa	> 10 MPa
Bond strength	CAN/CSA-A23.1-04/ A23.2-04 Section 6B	3 MPa	> 1.4 MPa	> 1.4 MPa
Hardness (Shore A)	ASTM D2240	---	---	95
Pot life @ 20 °C (68 °F)	-	50 min	---	30 min
Fully cured @ 20 °C (68 °F)	-	2-3 h	50% RH ; 5-6 h 30% RH ; 10 h 22% RH ; > 35h	9 h (@ 20 °C) 3 h (@ 30 °C)

(All values are nominal)

CLEANING

Tools can be cleaned with petroleum solvents (mineral spirits, Varsol, Xylene, etc.).

STORAGE AND HANDLING

Shelf life: 18 months when properly stored in original unopened containers. Containers MUST NEVER BE STORED AT TEMPERATURES BELOW 10 °C (50 °F).

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

SYSTÈME QUALITÉ ISO 9001 QUALITY SYSTEM

SYSTÈME ENVIRONNEMENT ISO 14001 ENVIRONMENT SYSTEM

SOPREMA®