



WATERPROOFING

APPLICATIONS

BALCONIES

ALSAN TRAFIK HP 500 ZERO BALCONIES

TECHNICAL DATA SHEET 180917SCANE

(supersedes 180806SCANE)

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, also used as vapour barrier on slab on grade when the moisture content of the concrete slab is high. It is also used for junctions where the **ALSAN TRAFIK HP 500 ZERO** system meets the **SOPREMA** bituminous membranes.

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 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 500 ZERO** system is approved by Canadian Food Inspection 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 grinding is recommended. Shot blasting is another approved method to prepare the concrete surface (ICRI 310.2R).
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 (example: walls) 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.



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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.

TDS_ALSAN_TRAFIK_HP 500_ZERO_BALCONIES.indd



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1. Surface will be primed with **ALSAN TRAFIK HP 515** using a roller (**ALSAN FLOOR EP 101** primer can also be used with the same application method). Mix each part independently for at least 2-3 minutes. Pour part B in the part A back and forth until you have an adequate mix. 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).
2. Once primer **ALSAN TRAFIK HP 515** or **ALSAN FLOOR EP 101** is completely dry, apply **ALSAN TRAFIK HP 525** with a roller. Mix each part independently for at least 2-3 minutes. Pour Part A in the Part B back and forth until you have an adequate mix. 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.
3. Once **ALSAN TRAFIK HP 525** is completely dry, apply **ALSAN TRAFIK HP 535** (maximum recoat window: 36 h) with a roller. Mix each part independently for at least 2-3 minutes. Pour Part B in the Part A back and forth until you have an adequate mix. 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). Spread aggregates to create a non-slip surface while the resin is still wet, use a roller to fully encapsulate the aggregates. Only one layer of **ALSAN TRAFIK HP 535** is needed.
4. If there is no need to install the waterproofing layer, apply **ALSAN TRAFIK HP 535** over a fully cured **ALSAN TRAFIK EP110**.

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.



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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	Clear Brownish	Amber Grey	Grey, dark grey Clear
Specific gravity @ 25 °C (77 °F)			
Part A	0.95 kg/L	1.06 kg/L	1.19 kg/L
Part B	1.22 kg/L	1.28 kg/L	1.09 kg/L
Packaging insert			
Part A	0.49 L	0.41 L	2.27 L
Part B	0.36 L	3.09 L	1.23 L
Total	0.85 L	3.5 L	3.5L
Coverage	Mix: 6 m ² (70 ft ²)* Wet film thickness of 127 µm (5 mils)	Mix: 7 m ² (75 ft ²) Wet film thickness of 508 µm (20 mils)	Mix: 9 m ² (100 ft ²) Wet film thickness of 355 µm (14 mils)

* Primer (515) coverage may vary from 4 m² to 6 m² (45 ft² to 70 ft²) depending of concrete porosity.

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

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	-	250 cP	20 cP	2200 cP
Part B	-	125 cP	7200 cP	900 cP
Solids by weight	-	100 %	100 %	100 %
Ultimate elongation	ASTM D412	---	> 500 %	> 100 %
Tensile strength	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	---	50 min
Fully cured @ 20 °C (68 °F)	-	2-3 h	50% RH ; 5-6 h 30% RH ; 10 h 22% RH ; > 35h	2 - 3 h

(All values are nominal)



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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).



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