

ALSAN TRAFIK HP 500

Polyurethane Traffic Coatings

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 plywood decks for balconies. This system is composed of three products for light pedestrian traffic and of four products for vehicular traffic:

ALSAN TRAFIK HP 510 ZERO is a single component primer without volatile organic compounds (VOCs) composed of polyurethane resin, which is used to prime substrates such as concrete and plywood.

ALSAN TRAFIK HP 510 LO is a single component primer with low odour composed of polyurethane resin, which is used to prime substrates such as concrete and plywood.

ALSAN TRAFIK HP 520 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 polyurethane resin finish coat.

Installation: 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 2, 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/100m²/24h (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.
4. Cracks of more than 1.6 mm (1/16 in) width need to be repaired with a polyurethane product.
5. Surface will be primed with *ALSAN TRAFIK HP 510 ZERO* or *ALSAN TRAFIK HP 510 LO* using a roller. Once primed, surface should have a glossy finish. It must be dry and tack free before applying *ALSAN TRAFIK HP 520* (maximum recoat window: 36 h).

Waterproofing System:

1. Once primer is completely dry (minimum 6 hours), apply *ALSAN TRAFIK HP 520 (mixed with ALSAN ACCELERATOR)* with a 6 mm (3/16 in) notched squeegee. Back roll the surface to level.
2. Once *ALSAN TRAFIK HP 520* is completely dry (minimum 12 hours), apply *ALSAN TRAFIK HP 530* (maximum recoat window: 36 h) with a 6 mm (3/16 in) notched squeegee or 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. More than 1 coat could be required.
3. Once the last coat of *ALSAN TRAFIK HP 530* is completely dry (minimum 12 hours), apply the transparent finish coat of *ALSAN TRAFIK HP 540* with a roller (maximum recoat window: 36 h).

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

For proper curing, minimum application temperature is 5°C. The above drying times are for ideal application conditions, 23°C and 50% relative humidity. Drying times are longer at lower temperature and/or with lower relative humidity.

Properties:

Properties	Standards	PRIMER: ALSAN TRAFIK HP 510 (ZERO and LO)	MEMBRANE: ALSAN TRAFIK HP 520	WEAR COAT: ASLAN TRAFIK HP 530	FINISH COAT: ALSAN TRAFIK HP 540
Physical state	-	Liquid	Self-Levelling Liquid	Self-Levelling Liquid	Liquid
Color	-	Transparent	Grey	Grey	Transparent
Specific gravity @ 25°C (kg/L)	-	1.01 (LO) 1.30 (ZERO)	1.12	1.08	0.98
Brookfield viscosity @ 25°C (cP)	-	200	4500	2000	250
Solids by weight (%)	-	45	75	72	66
Ultimate Elongation (%)	ASTM D412	---	600	500	100
Tensile Strength (MPa)	ASTM D412	---	8	13	13
<i>Bond Strength (MPa)</i>	CAN/CSA- A23.1-04/ A23.2-04 Section 6B	---	> 1.6	---	---
Hardness (Shore A)	ASTM D2240	---	80	96	> 100

(All values are nominal)

Packaging:

ALSAN TRAFIK HP 510 ZERO and ALSAN TRAFIK HP 510 LO:

- 19 L pails
- Coverage rate: 149 m² (1600 ft²) per pail with a wet film thickness of 125 µm (5 mils)

ALSAN TRAFIK HP 520:

- 19 L pails
- Coverage rate: 28 m² (300 ft²) per pail with a wet film thickness of 700 µm (28 mils)

ALSAN TRAFIK HP 530:

- 19 L pails
- Coverage rate: 56 m² (600 ft²) per pail, per coat with a wet film thickness of 300 µm (13 mils)

ALSAN TRAFIK HP 540:

- 19 L pails
- Coverage rate: 70 m² (750 ft²) per pail with a wet film thickness of 250 µm (10 mils)

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

Storage:

Pails must be kept away from heat, humidity or direct sunlight.
Shelf life: Up to 12 months in original sealed containers.

Cleaning:

Tools can be cleaned with petroleum solvents such as mineral spirits, varsol, xylene, etc.

Precautions:

ALSAN TRAFIK HP 500 system products are flammable. Store in a cool and dry area. Use in a well ventilated area, far from any open flame. Avoid breathing solvent vapours and prolonged skin contact.

CONSULT THE MATERIAL SAFETY DATE SHEET PRIOR TO USE.

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NOTE: SOPREMA INC. may modify the composition and/or utilisation of its products without prior notice. Consequently orders will be filled according to the latest specification.