

# ALSAN TRAFIK HP 500

## DESCRIPTION

**ALSAN TRAFIK HP 500** is a highly resistant liquid waterproofing system. Part of SOPREMA's **ALSAN** line polyurethane waterproofing products, the **ALSAN TRAFIK HP 500** system consists of a primer coat and 3 single-component polyurethane coats. Due to its superior elongation properties and high abrasive resistance, the **ALSAN TRAFIK HP 500** system waterproofs and protects concrete structures exposed to both pedestrian and vehicular traffic.

Highly resistant

Light-weight

Heavy duty system

Eliminates risk of water infiltration

Worry free application



**ALSAN TRAFIK HP 510 LO** is a two-component moisture cure polyurethane resin, high performance, low odour primer specially formulated for odour sensitive applications adjacent to occupied areas. ALSAN TRAFIK HP 510 LO is ideal for plazas, pool/recreation decks, balconies, mechanical rooms, stadiums, parking decks, and similar applications requiring a liquid waterproofing system. It is used in conjunction with the ALSAN TRAFIK HP 500 system.



**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.



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## INSTALLATION

### SURFACE PREPARATION

Concrete must be fully cured (28 days) with a minimum hardness of 24 MPa. Surface needs to be sound, clean and free of dust or debris.

Concrete surface must be prepared to obtain concrete surface profile (CSP) of 2, 3 or 4 as per the International Concrete Repair Institute (ICRI). To obtain such a profile, the use of special equipment such as shot blasting is recommended.

Concrete substrate should have a maximum moisture content of 1.5 kg/100m<sup>2</sup>/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.

Cracks of more than 1.6 mm wide need to be repaired with polyurethane mastic.

Surface will be primed with **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:

Once primer is completely dry (minimum 6 h), apply **ALSAN TRAFIK HP 520** with a 6 mm notched squeegee. Back roll the surface to level.

Once **ALSAN TRAFIK HP 520** is completely dry (minimum 12 h), apply **ALSAN TRAFIK HP 530** (maximum recoat window: 36 h) with a 6 mm notched squeegee. Spread aggregates to create a non-slip surface once the installation is completed and while the surface is still wet, back roll the surface to level. More than 1 coat could be required.

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 h after the installation of **ALSAN TRAFIK HP 540**.

For proper curing, minimum application temperature is 5°C.

### QUALITY CONTROL

SOPREMA has always attached the highest importance to quality control. For this reason, we operate an internationally recognized quality system meeting ISO 9001 & ISO 14001 standards, independently monitored and certified.

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## PROPERTIES

Properties	Standards	PRIMER: ALSAN TRAFIK HP 510 LO	PRIMER: ALSAN TRAFIK HP 520	PRIMER: ALSAN TRAFIK HP 530	PRIMER: ALSAN TRAFIK HP 540
Physical State	-	Liquid	Self-Leveling Liquid	Self-Leveling Liquid	Liquid
Color	-	Trasparent	Grey	Grey Dark Grey	Trasparent
Specific Gravity @ 25 °C	-	Part A: 0.97 Part B: 1.01	1.12	1.08	0.98
Brookfield Viscosity @ 25 °C	-	50	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
Bond Strength (MPa)	-	-	> 1.6	-	-
Hardness (Shore A)	ASTM D412	-	-	-	80

(All values are nominal)

## PACKAGING

- ALSAN TRAFIK HP 510 LO:** - 19 L pail (Part A: 0.2 L and Part B 18.8 L)  
 Product code: 31230F - Coverage rage: 149 m<sup>2</sup> per pail with a wet film thickness of 125 µm.
- ALSAN TRAFIK HP 520:** - 19 L pail  
 Product code: 31350F - Coverage rage: 28 m<sup>2</sup> per pail with a wet film thickness of 700 µm
- ALSAN TRAFIK HP 530:** - 19 L pail  
 - Product codes: 30160F - Coverage rage: 56 m<sup>2</sup> per pail with a wet film thickness of 300 µm.  
 30180F
- ALSAN TRAFIK HP 540:** - 19 L pail  
 Product code: 31500F - Coverage rage: 70 m<sup>2</sup> per pail with a wet film thickness of 250 µm.

## 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 pretroleum solvents such as spirits, varsol, xylene, etc

## PRECAUTIONS

**ALSAN TRAFIK HP 500** system products are flammable. Store in coll and dry area. Use in a well-ventilated area, away from any source of flame. Avoid breathing solvent vapours and prolonged skin contact.

**CONSULT THE SDS PRIOR TO USE.**

