



WATERPROOFING

APPLICATIONS

ROOFS

PARKING DECKS

BALCONIES

ALSAN TRAFIK HP 500

TECHNICAL DATA SHEET

ANZ-TDS-16-ALSAN TRAFIK HP 500

DESCRIPTION

ALSAN TRAFIK HP 500 traffic coating system is a polyurethane membrane designed to waterproof vehicular and pedestrian traffic areas on concrete decks and balconies.

This system is composed of three products for light pedestrian traffic and four products for vehicular traffic:

- **ALSAN EP 100 H₂O** is a two component water base epoxy primer (product data sheet ANZ-TDS-01-ALSAN EP 100 H₂O)
- **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 traffic
- **ALSAN TRAFIK HP 540** is a single component aliphatic polyurethane resin finish coat

Compliance with AS 4654.1

Highly resistant to foot and car traffic

Lightweight, heavy-duty system

FIELD OF APPLICATION

- Rooftops
- Plaza decks & Terraces
- Balconies
- Car parks
- Pedestrian traffic areas

INSTALLATION PROCEDURE

SURFACE PREPARATION:

- 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
- 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
- Concrete substrate should have a maximum moisture content of 1.5 kg/100 m²/24 h and internal content of 75 % RH, and be prepared as required to provide proper adhesion of the ALSAN TRAFIK system to the substrate with a minimum bond strength of 1.4 MPa (200 psi)
- Cracks of more than 1.6mm in width need to be repaired with SOPRASEAL SEALANT or a compatible polyurethane sealant

APPLICATION:

- Prime surface with **ALSAN EP 100 H₂O** using a roller. See product TDS (ANZ-TDS-01-ALSAN EP 100 H₂O) for further instructions. The primer must be dry and tack free before applying **ALSAN TRAFIK HP 520** (maximum recoat time: 36 h).
 - Once the primer is completely dry, apply **ALSAN TRAFIK HP 520** with a 6mm notched squeegee. Back roll the surface to level.
 - Once **ALSAN TRAFIK HP 520** is completely dry (minimum 12 hours), apply **ALSAN TRAFIK HP 530** with a roller (maximum recoat time: 36 h). Once the application is completed and while the surface is still wet, spread aggregates to create a non-slip surface, and roll well in order to encapsulate any loose aggregates.
 - In ramps, spread aggregates in abundance. Remove excess after curing, before installing second layer of **ALSAN TRAFIK HP 530** (heavy duty traffic). The second layer coverage rate of **ALSAN TRAFIK HP 530** will drop considerably.
 - 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 time: 36 h). Wait 72 hours after application before allowing traffic
- Note: **ALSAN TRAFIK HP 540** can be colored with ALSAN TRAFIK HP COLOURANT if needed (see product technical data sheet).



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APPLICATION (CONT.):

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

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

PACKAGING

SPECIFICATIONS	PRIMER: ALSAN EP 100 H ₂ O	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	Pipeline grey N35	Grey	Grey	Transparent
Packaging	20 l (10l part A & 10l part B)	19 l	19 l	19 l
Coverage*	4-5 m ² /litre/coat Wet film thickness 200 µm per coat	28 m ² /pail Wet film thickness 700 µm (28 mils)	56 m ² /pail, per coat Wet film thickness 300 µm (13 mils)	70 m ² /pail, Wet film thickness 250 µm (10 mils)

* For applications with colourant, refer to ALSAN TRAFIK GREY COLOURANT TDS.

PROPERTIES

PROPERTIES	TEST METHOD	PRIMER: ALSAN EP 100 H ₂ O	MEMBRANE: ALSAN TRAFIK HP 520	WEAR COAT: ALSAN TRAFIK HP 530	FINISH COAT: ALSAN TRAFIK HP 540
Brookfield viscosity @ 25 °C	-	-	1000 - 3000 cP	2000 cP	250 cP
Solids by weight	-	47 %	75 %	72 %	66 %
Ultimate elongation	ASTM D412	-	600 %	500 %	100 %
Tensile strength	ASTM D412	-	8 MPa	13 MPa	13 MPa
Hardness (Shore A)	ASTM D2240	-	80	96	>100
Pot life @ 22 °C	-	1 hour at 20°C	-	-	-

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**. Avoid breathing solvent vapours and prolonged skin contact.

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this publication is based on the present state of our best knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, their representative and/or the contractor are responsible for checking the suitability of products for their intended use.



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