ALSAN TRAFIK HP 500

TECHNICAL DATA SHEET

ANZ-TDS-16-ALSAN TRAFIK HP 500

WATERPROOFING

APPLICATIONS

ROOFS

PARKING DECKS

BALCONIES

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 concrete decks for balconies.

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

- **ALSAN EP 100 H_2O** is a two component water base epoxy primer (product data sheet ANZ-TDS-01-ALSAN EP 100 H_2O)
- **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 aliphatic polyurethane resin finish coat

Compliance with AS 4654.1

Highly resistant

Lightweight, heavy-duty system

One component, no mixing required

Design allows more precise detailing

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 profi le, the useof special equipment such as shot blasting is recommended
- Concrete substrate should have a maximum moisture content of 1.5 kg/100 m2/24 h (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)
- Cracks of more than 1.6mm width need to be repaired with compatible polyurethane sealant
- When needed, concrete reparation must be done with appropriate products

APPLICATION:

- Surface will be primed with **ALSAN EP 100 H_2O** using a roller. See product TDS (ANZ-TDS-01-ALSAN EP 100 H_2O) for further instructions. Primer must be dry and tack free before applying **ALSAN TRAFIK HP 520** (maximum recoat window: 36 h).
- Once primer is completely dry, 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 hours), apply **ALSAN TRAFIK HP 530** (maximum recoat window: 36 h) with 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. In ramps, spread aggregates at refusal and remove excess after curing before installing second layer of **ALSAN TRAFIK HP 530** (heavy duty traffic). Second layer coveragerate 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 window: 36 h). **ALSAN TRAFIK HP 540** can be colored with ALSAN TRAFIK HP COLORANT (see product technical data sheet). Traffic is allowed 72 hours after the installation of **ALSAN TRAFIK HP 540**.

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APPLICATION (CONT.):

- For proper curing, 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 temperature and/or with lower relative humidity.

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

PACKAGING

SPECIFICATIONS	PRIMER: ALSAN EP 100 H_2O	MEMBRANE: ALSAN TRAFIK HP 520	WEAR COAT: ALSAN TRAFIK HP 530	FINISH COAT: ALSAN TRAFIK HP 540
Physical state	Liquide	Self-leveling liquide	Self-leveling liquide	Liquide
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 m2/litre/coat Wet film thickness 200 µm per coat	28 m2 /pail Wet film thickness 700 µm (28 mils)	56 m2 /pail, per coat Wet film thikness 300 µm (13 mils)	70 m2/pail, Wet film thikness 250 µm (10 mils)

PROPERTIES

PROPERTIES	TEST METHOD	PRIMER: ALSAN EP 100 H_2O	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.