

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. 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 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 the traffic density.
- **ALSAN TRAFIK HP 540** is a single component aliphatic polyurethane resin finish coat.

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/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) 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 compatible polyurethane sealant 5.
5. When needed, concrete repair must be done with appropriate products.

APPLICATION

1. Surface will be primed with ALSAN EP 100 H₂O using a roller. See product TDS (ANZ-TDS-01-ALSAN EP 100 H₂O) for further instructions. Primer must be dry and tack free before applying ALSAN TRAFIK HP 520 (maximum recoat window: 36 h).
2. Once primer is completely dry, apply ALSAN TRAFIK HP 520 with a 6 mm (3/16 in) notched squeegee. Back roll the surface to level.
3. 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 coverage rate of ALSAN TRAFIK HP 530 will drop considerably.
4. 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 coloured with ALSAN TRAFIK HP COLORANT (see product technical data sheet). Traffic is allowed 72 hours after the installation of ALSAN TRAFIK HP 540.

For proper curing, minimum application temperature is 5 °C (41 °F). 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.

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PACKAGING

SPECIFICATIONS	PRIMER: ALSAN EP 100 H2O	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 litres kits (10 litres part A and 10 litres part B)	19L	19L	19L
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 thikness 300 µm (13 mils).	70 m ² /pail, Wet film thikness 250 µm (10 mils).

PROPERTIES

PROPERTIES	STANDARDS	PRIMER: ALSAN EP 100 H2O	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	-	-	-



WATERPROOFING

APPLICATIONS

CAR PARK

BALCONIES

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STATEMENT OF RESPONSIBILITY

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