

Technical Data Sheet

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 TRAFIK HP 515 is a two-component polyurethane resin used as a primer on concrete.

ALSAN TRAFIK EP 110 is a two-component epoxy primer and vapour barrier, used as primer and vapour barrier on slab on grade. (see details on the product data sheet).

ALSAN TRAFIK HP 520 (mixed with **ALSAN ACCELERATOR**) 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.

***ALSAN TRAFIK HP 500** system is approved by Canadian Food Inspection Agency.

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 (ICR/CSP) of 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 membranes 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 **ALSAN ACTIF**.
5. When needed, concrete repair must be done with a mix of **ALSAN TRAFIK EP 110** and silica fume or with appropriate products.

APPLICATION

1. Surface will be primed with **ALSAN TRAFIK HP 515** using a roller or a flat squeegee. **ALSAN TRAFIK EP 110** primer can also be used. Remove the lid, remove the plastic insert (part B) and pour the entire content into part A. Then, the two parts are mixed thoroughly for at least 2 to 3 minutes for a homogeneous consistency and pour immediately the mix onto substrate. Pot life after mixing is 50 minutes at 20 °C (68 °F). It must be dry and tack free before applying **ALSAN TRAFIK HP 520** (maximum recoat window: 36 h).
2. Once primer **ALSAN TRAFIK HP 515** or **ALSAN TRAFIK EP 110** is completely dry, apply **ALSAN TRAFIK HP 520** (mixed with **ALSAN ACCELERATOR**) 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. 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 TRAFIK HP 515	MEMBRANE : ALSAN TRAFIK HP 520	WEARCOAT : ALSAN TRAFIK HP 530	FINISH COAT : ALSAN TAFIK HP 540
Physical state	Liquid	Self-levelling liquid	Self-levelling liquid	Liquid
Colour	Part A: Transparent Part B: Brownish	Grey	Grey, Dark Grey	Transparent
Specific gravity @ 25°C (77°F)	Part A: 0.95 kg/L Part B: 1.22 kg/L	1,12 kg/L	1,08 kg/L	0,98 kg/L
Packaging	Part A: 4.1L Part B: 3L	19 L	19 L	19 L
Coverage	Mix of A+B (7.1L): 56m ² Wet film thickness 125 µm (5 mils).	28m ² /pail Wet film thickness 700µm(28mils).	56m ² /pail, per coat Wet film thickness 300µm(13mils).	70 m ² /pail Wet film thickness 250µm(10mils).

*Primer (515) coverage may vary from 37 m² to 56 m² (400 ft² to 600 ft²) depending on concrete porosity. Note: All coverage rates are approximate and may vary due to the application technique and surface roughness.

PROPERTIES

ALSAN TRAFIK HP 500 meets the Low Temperature Crack Bridging requirements of the ASTM C957 standard. ALSAN TRAFIK HP 500 meets C1202 (or AASHTO T277) standard.

PROPERTIES	STANDARDS	PRIMER: ALSAN TRAFIK HP 515	MEMBRANE: ALSAN TRAFIK HP 520	WEAR COAT: ALSAN TRAFIK HP 530	FINISH COAT: ALSAN TRAFIK HP 540
Brookfield viscosity @ 25 °C (77 °F)	-	Part A: 250 cP Part B: 125 cP	1000 - 3000 cP	2000 cP	250 cP
Solids by weight	-	100 %	75 %	72 %	66 %
Ultimate elongation	ASTM D412	---	600 %	500 %	100 %
Tensile strength	ASTM D412	---	8 MPa	13 MPa	13 MPa
Bond strength	CAN/CSA- A23.1-04/ A23.2-04 Section 6B	> 3 MPa	---	---	---
Hardness (Shore A)	ASTM D2240	---	80	96	> 100
Pot life @ 22 °C (72 °F)	-	50 min	---	---	---
Fully cured					
	0 °C (32 °F)	8h			
	5 °C (41 °F)	6h			
	22 °C (72 °F)	2h	---	---	---
	30 °C (86 °F)	1h			

(All values are nominal)

STORAGE AND HANDLING

Shelf life: 12 months, properly stored in original unopened containers. Containers **MUST NEVER BE STORED AT TEMPERATURES BELOW 10 °C (50 °F)**. Avoid breathing solvent vapours and prolonged skin contact.

For more information, refer to the instructions on the container label and relevant safety data sheet (SDS).

Date: July 2018
Replaces: New



Allnex Construction Products, a Division of Allnex New Zealand Ltd

Auckland - 14 Industry Road Penrose phone: 095836544. Hamilton - 18 Somerset Street Frankton phone: 07-847-8658

Wellington - 19A Jamaica Drive Grenada North phone: 04-240-0305. Christchurch - 112 Carlyle Street Sydenham phone: 03-366-6802

Customer Service: 0508-882-288 cs.constructionnz@allnex.com

www.allnexconstruction.com

DISCLAIMER: This information appearing in this Document (**Details**) concerning the product which is the subject of the Document (**Product**) is either based on present technical knowledge and tests done by allnex or tests done by, and data supplied from third parties including you, the customer. Since the actual use by you and by others of the Product is beyond the control of allnex, no warranty or representation, express or implied is made by allnex regarding the suitability for such use, nor does allnex accept any liability arising out of the use by you of other products or materials, whether third party or not, that may be referred to in this Document. allnex recommends that you carry out your own tests as to the suitability of the Product for your purpose, regarding which you accept full responsibility. In addition, if any of the Details appearing in the Document are based upon tests done by, and/or data supplied by any third party, allnex provides no warranties or representations in connection with those Details and you, the customer waives any right you may have against allnex in connection with the accuracy, completeness or otherwise of the Details. The information in this Document is not to be construed as absolutely complete or accurate since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations affecting use of the Product. allnex does not provide any warranty or representation to you that the Product does not infringe the intellectual property rights of any third party. All orders accepted shall be subject to the standard conditions of sale of allnex which are on the back of our invoice. In accepting the Product you, the customer acknowledge and agree: **a.)** The Product is or may be of a hazardous nature and that you, the customer, are responsible for the disposal of the container housing the Product in accordance with the requirements and regulations of the relevant supervising government. **b.)** The Product has a limited shelf life and must be stored strictly in accordance with the guidelines and specifications related to it. **c.)** Where the Details relate to Product tested by allnex, those Details are indicative only, regarding which there may be batch to batch variation. **d.)** allnex gives no warranty or representation as to the applicability for the particular use by you, the customer, of the Product and you the customer shall be responsible for ensuring that the Product is fit for your intended use. **e.)** allnex's liability for breach of any term, condition, guarantee or warranty (express or implied and concerning the information in this Document or the Product more generally) including any liability for direct or indirect consequential loss (including indirect loss of profits), is limited to the maximum extent permitted by law and, at allnex's election, to either replacing or repairing the goods or paying the cost of replacing or repairing the goods, or in the case of services, supplying the services again.