

ALSAN TRAFIK PU 221

TECHNICAL DATA SHEET 210330SCANE

(supersedes -)



WATERPROOFING

APPLICATION

PARKING DECKS

DESCRIPTION

ALSAN TRAFIK PU 221 is a two-component, VOC-free, odourless, and 100%-solids polyurethane resin. It is used as a waterproofing membrane in the ALSAN TRAFIK BASE, ALSAN TRAFIK HD and ALSAN LIGHT TRAFIK ZERO systems.

RECOMMENDED SUBSTRATE

ALSAN TRAFIK PU 221 must be applied on a concrete substrate.

SURFACE PREPARATION

1. Before applying the ALSAN TRAFIK PU 221 waterproofing membrane, concrete must be fully cured (28 days) with a minimum hardness of 24 MPa (3500 psi). Substrate should be clean, sound, dry and free of loose materials, grease, laitance and any contaminants which may compromise the performance of the product.
2. The concrete surface must be prepared so as to obtain a concrete surface profile (CSP) of 3 or 4 of the *International Concrete Repair Institute* (ICRI). In order to obtain these profiles, shot blasting with steel balls is recommended.
3. The substrate must be prepared so as to obtain a minimum system adhesion of 1.4 MPa (200 PSI) according to the standard CAN CSA-A23.1-04 / A23.2-04 Section 6B (or ASTM D 7234).
4. The moisture content of the concrete must be measured and must be less than or equal to 4 % when measured with a TRAMEX CME4 according to ASTM F2659, or less than 1.5 kg / 100 m² / 24 h when measured according to the ASTM F1869 method.
5. Cracks larger than 1.6 mm (1/16 in) must be repaired using SOPRASEAL SEALANT.

IMPORTANT: ALSAN TRAFIK PU 221 cannot be installed without a primer if the substrate does not meet all of the previous conditions. Additional testing may be required by an external consultant depending on the condition of the substrate. **A test patch is required** on an area of 1 m x 1 m before proceeding with the main application.

Since application methods and site conditions are beyond our control and may affect system performance, SOPREMA only guarantees material failure.

APPLICATION

The primer should be dry to the touch before the application of ALSAN TRAFIK PU 221.

Stir the contents of Part A and Part B separately for 2 to 3 minutes. Add Part B to Part A, making sure to incorporate the entire contents. Then mix together for 2 to 3 minutes to obtain a homogeneous consistency and immediately pour the mixture onto the substrate.

Apply a coat of ALSAN TRAFIK PU 221 with a minimum wet film thickness of 635 µm (25 mils) onto the substrate. ALSAN TRAFIK PU 221 will become completely opaque when the thickness of 25 mils is reached.

The resin should be spread evenly on the surface using a 4.7 mm (3/16 in) serrated squeegee.

The layer, thus far liquid, must then be levelled against the grain with a roller.

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



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NOTE: All products manufactured by SOPREMA Inc. comply with the description and properties indicated in the technical data sheet that was current at the date of manufacture.

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PACKAGING

Specifications		ALSAN TRAFIK PU 221
Physical state		Self-leveling liquid
Solids by weight		100 %
Volume ratio		5:2
Color	(Part A)	White
	(Part B)	Amber
Density, @ 25 °C (77 °F)	(Part A)	1.20 kg/L
	(Part B)	1.19 kg/L
Volume	(Part A)	13.29 L
	(Part B)	5.31 L
	Total (A+B)	18.6 L
Consumption, 635 µm (25 mils)		1.45 m ² /L (59 ft ² /gal)
Coverage, 635 µm (25 mils)	Set (A+B)	27 m ² (290 ft ²)

(All values are nominal)

NOTE: All coverage rates are approximate and may vary due to the application technique and surface roughness. SOPREMA recommends the acquisition of an excess volume of 10% to the volume initially estimated to cover the surface area in order to compensate for irregularities in the substrate that may influence the consumption of the product.



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PROPERTIES

Properties	Standards	ALSAN TRAFIK PU 221
Viscosity Brookfield, @ 25 °C (77 °F) (Part A) (Part B)	-	2 700 cP 600 cP
Elongation at break	ASTM D412	150 %
Tensile strength	ASTM D412	> 5 MPa
Bond strength	ASTM D7234	> 2.0 MPa
Water absorption, 24h	ASTM D570	0.3 %
VOC content	ASTM D2369 Method E	< 6 g/L
Crack Bridging	ASTM C1305	Pass
Water vapor permeability	ASTM E96 Method B	17 ng/Pa.s.m ² (0.3 perm)
Hardness (Shore A)	ASTM D2240	75-80
Pot life, 250g @ 25 °C (77 °F)	-	1 h
Fully cured, @ 22 °C 50% RH	ASTM D5895	8 h

(All values are nominal)

NOTE: For proper curing, a minimum application temperature of 10 °C (50 °F) should be maintained for the entire duration of the curing process. The above drying times were obtained under ideal application conditions of 22 °C (72 °F) and 50% relative humidity.

CLEANING

Tools can be cleaned with petroleum solvents (mineral spirits, xylene, etc.).

STORAGE AND HANDLING

The product can be stored for up to 12 months when properly kept in the original, unopened containers.

Containers must **NEVER BE STORED AT TEMPERATURES BELOW 10 °C (50 °F)**.

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



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