

ALSAN TRAFIK EP

SYSTEM SHEET 211208SCANE

(supersedes 210610SCANE)



WATERPROOFING

APPLICATIONS

INTERIOR
APPLICATIONS

PARKING DECKS

DESCRIPTION

ALSAN TRAFIK EP is a hybrid system composed of a two-component polyurethane-based waterproofing membrane and a coloured self-levelling epoxy topcoat. It creates an aesthetic finish and is mainly used for interior applications requiring waterproofing, such as underground parking garages, mechanical rooms, locker rooms and showers.

SYSTEM COMPONENTS

- SOPRASEAL SEALANT is a sealant used to seal cracks and complete elevation details.
- ALSAN FLOOR EP 101 is a two-component epoxy primer that also acts as a vapour barrier.
OR
ALSAN TRAFIK HP 515 is a two-component polyurethane primer.
- ALSAN TRAFIK PU 221 is a two-component, odourless polyurethane resin, free of volatile organic compounds (VOCs) and used as a waterproofing membrane.
- ALSAN FLOOR EP 440 is a two-component, coloured, self-levelling epoxy finish coating used as a wearing course and/or as a topcoat.
- SILICA SAND is added to the topcoat to create a non-slip finish at the end of the works if needed.

SURFACE PREPARATION

1. Before installing the system, the concrete must be completely cured (28 days) with a minimum hardness of 24 MPa (3,500 psi). The substrate should be clean, sound, dry and free of loose materials, grease, laitance and any other contaminants that may compromise the performance of the product.
2. The concrete surface must be prepared so that it is equivalent to a ICRI CSP profile of 3 or 4. The steel shot blasting method is recommended to obtain these profiles and eliminate any trace of contamination on the surface.
3. The concrete substrate must have a maximum moisture content of 98% RH (ASTM F2170) and 0.5 kg/100 m² in /24 h (ASTM F1869) and shall be prepared as required to provide a minimum system adhesion of 1.4 MPa (200 psi) as per CAN/CSA-A23.1-04/A23.2-04 section 6B.
4. Cracks that are wider than 1.6 mm (1/16 in) must be filled with SOPRASEAL SEALANT.
5. All elevation details (walls, columns, etc.) must also be prepared with SOPRASEAL SEALANT.
6. Where needed, more extensive concrete repairs should be completed with a mixture of ALSAN FLOOR EP 101 and ALSAN TF 801.

IMPORTANT

The ALSAN TRAFIK PU 221 membrane can be installed without a primer if the substrate meets all of the six conditions listed above. Additional testing by an external consultant may be required depending on the condition of the substrate. **A sample application test must be done** on an area of 1 m × 1 m before proceeding with the main application.



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1/3



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SYSTEM APPLICATION

PRIMER

ALSAN FLOOR EP 101

ALSAN TRAFIK HP 515

1.B. Once the concrete surface preparation is complete, prime the surface with the **ALSAN FLOOR EP 101** primer. Independently mix the contents of Part A and that of Part B for 2 to 3 minutes. Add Part B to Part A, making sure to incorporate all of the contents. Mix again for 2 to 3 minutes until the consistency is homogeneous, then immediately pour the mixture onto the substrate.

With a roller or a flat squeegee, apply a coat of **ALSAN FLOOR EP 101** at a wet film thickness of **203 to 254 µm (8 to 10 mils)**.

The pot life of the mixture is 20 minutes at a temperature of 22 °C (72 °F).

The primer must be dry to the touch before applying the next coat (maximum time to apply the next coat: 72 h).

⚠ **NOTE:** The minimal ambient temperatures and that of the substrate must be no colder than 10 °C (50 °F) during both the application and complete curing of the product.

OR

1.A. Once the concrete surface preparation is complete, prime the surface with the **ALSAN TRAFIK HP 515** primer. Independently mix the contents of Part A and that of Part B for 2 to 3 minutes. Add Part B to Part A, making sure to incorporate all of the contents. Mix again for 2 to 3 minutes until the consistency is homogeneous, then immediately pour the mixture onto the substrate.

With a roller or a flat squeegee, apply a coat of **ALSAN TRAFIK HP 515** at a wet film thickness of **203 to 254 µm (8 to 10 mils)**.

The pot life of the mixture is 50 minutes at a temperature of 20 °C (68 °F).

The primer must be dry to the touch before applying the next coat (maximum time to apply the next coat: 36 h).

⚠ **NOTE:** The minimal ambient temperatures and that of the substrate must be no colder than 5 °C (41 °F) during both the application and complete curing of the product.

WATERPROOFING MEMBRANE

ALSAN TRAFIK PU 221

2. When the **ALSAN FLOOR EP 101** or **ALSAN TRAFIK HP 515** primer is dry to the touch, apply the **ALSAN TRAFIK PU 221** waterproofing membrane.

Independently mix the contents of Part A and that of Part B for 2 to 3 minutes. Add Part B to Part A, making sure to incorporate all of the contents. Mix again for 2 to 3 minutes until the consistency is homogeneous, then immediately pour the mixture onto the substrate.

With a 4.7 mm (3/16 in) serrated squeegee, apply a coat of **ALSAN TRAFIK PU 221** with a wet film thickness of **635 µm (25 mils)**. The resin must be evenly distributed over the surface.

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

The pot life of the mixture is 1 hour at a temperature of 25 °C (77 °F).

⚠ **NOTE:** The minimal ambient temperatures and that of the substrate must be no colder than 10 °C (50 °F) during both the application and complete curing of the product.



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TOPCOAT / WEARING COURSE

ALSAN FLOOR EP 440

3. When the ALSAN TRAFIK PU 221 waterproofing membrane is completely cured, use the coloured self-levelling coating ALSAN FLOOR EP 440.

Independently mix the contents of Part A and that of Part B for 2 to 3 minutes. Add Part B to Part A, making sure to incorporate all of the contents. Mix again for 2 to 3 minutes until the consistency is homogeneous, then immediately pour the mixture onto the substrate.

With a roller or a flat squeegee, apply a coat of ALSAN FLOOR EP 440 at a wet film thickness of **381 to 508 µm** (15 to 20 mils).

The pot life of the mixture is 1 hour at a temperature of 20 °C (68 °F).



NOTE: The minimal ambient temperatures and that of the substrate must be no colder than 10 °C (50 °F) during both the application and complete curing of the product.

NON-SLIP EFFECT

SILICA SAND

Partial Saturation

- 4.A. When a non-slip finish is required and the topcoat application is complete, add silica sand (16 to 32 mesh) to the topcoat of ALSAN FLOOR EP 440.

The silica sand must be broadcast in partial saturation on the wet coat.

The liquid coat must be then levelled using a roller, to fully encapsulate the aggregates.

NOTE: A second coat of ALSAN FLOOR EP 440 can be applied once the previous coat has completely cured in order to increase the durability of the system. (Optional)

OR

Full Saturation

- 4.B. In environments with heavy vehicular traffic or in places that are highly susceptible to mechanical shocks, such as driveways and ramps in underground parking garages, add silica sand (16 to 32 mesh) to the ALSAN FLOOR EP 440 wearing course once the installation is complete.

The silica sand must be broadcast in full saturation on the wet coat.

Remove the excess once the product is dry with a broom or vacuum before applying the topcoat.

In order to finish the system, a topcoat of ALSAN FLOOR EP 440 should be applied when the wearing course of ALSAN FLOOR EP 440 is completely cured.

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



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