



WATERPROOFING

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# ALSAN TRAFIK EP 110

TECHNICAL DATA SHEET 170221SCANE

(supersedes 170208SCAN1E)

## DESCRIPTION

ALSAN TRAFIK EP 110 is a moisture reduction barrier, low VOC and low odour two component epoxy primer. It is used with the ALSAN TRAFIK HP 500 ZERO or ALSAN TRAFIK HP 500 systems where it provides a fast curing layer.

ALSAN TRAFIK EP 110 is used as a junction where the systems ALSAN TRAFIK HP 500 ZERO or ALSAN TRAFIK HP 500 meets a SOPREMA bituminous membrane.

## 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 internal moisture content of 75% RH (ASTM F2170) and 1.5 kg/100 m<sup>2</sup>/24h (ASTM F1869) 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 (see Table, page 2, for damp concrete).
4. Cracks of more than 1.6 mm (1/16 in) width need to be repaired with ALSAN ACTIF.
5. When needed, concrete reparation must be done with a mix of ALSAN TRAFIK EP 110 and silica fume or with appropriate products.

## APPLICATION (ALSAN TRAFIK HP 500 ZERO)

1. Mix 3.5 L: Surface will be primed with ALSAN TRAFIK EP 110 using a short-nap roller, or a brush. Only one coat is required. Pour Part B in the Part A back and forth until you have an adequate mix. Then, the two parts are mixed thoroughly for at least 1 minute or an homogeneous consistency and pour the mix onto substrate. Pot life after mixing is 20-25 minutes at 20°C (68 °F). It must be dry and tack free before applying ALSAN TRAFIK HP 525 (maximum recoat window: 3 days).

Mix 11.4 L: Surface will be primed with ALSAN TRAFIK EP 110 using a short-nap roller, or a brush. Only one coat is required. 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 an homogeneous consistency and pour immediately the mix onto substrate. Pot life after mixing is 20-25 minutes at 20°C (68 °F). It must be dry and tack free before applying ALSAN TRAFIK HP 525 (maximum recoat window: 3 days).

2. Once ALSAN TRAFIK EP 110 primer is completely dry (minimum 6 hours), apply ALSAN TRAFIK HP 525 with a 6 mm (3/16 in) notched squeegee. Remove the lid, remove plastic insert (part A) and pour the entire content into part B. Then, the two parts are mixed thoroughly for at least 2 to 3 minutes for an homogeneous consistency. Back roll the surface to level.



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3. Once **ALSAN TRAFIK HP 525** is completely dry, apply **ALSAN TRAFIK HP 535** (maximum recoat window: 36 h) with a roller. 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 an homogeneous consistency. Pot life after mixing is 50 minutes at 20 °C (68 °F). Spread aggregates to create a non-slip surface while the resin is still wet, use a roller to fully encapsulate the aggregates in **ALSAN TRAFIK HP 535**. In ramps, spread aggregates at refusal in the first layer and remove excess after curing before installing second layer of **ALSAN TRAFIK HP 535** (heavy traffic). In the second layer, broadcast aggregates. Second layer coverage rate of **ALSAN TRAFIK HP 535** will drop considerably. **ALSAN TRAFIK HP 535 COLOUR BASE** 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 535**.

**ALSAN TRAFIK HP 535 COLOUR BASE** 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 535**.

**Note:** Room and substrate temperature should be at 10 °C (50 °F) minimum during application and curing of the products:

higher temperatures accelerate both pot life and curing times;

lower temperatures delay pot life but lengthen significantly curing times.

Adapt application techniques as per environment conditions.

## APPLICATION (ALSAN TRAFIK HP 500)

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 an homogeneous consistency. 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**. 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, 23 °C (73.4 °F) 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.



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## PACKAGING

Properties	ALSAN TRAFIK EP 110
Physical state	Liquid
Colour	Part A: Yellowish Part B: Amber
Specific gravity at 25°C	Part A: 1.11 kg/L Part B: 1.00 kg/L
Viscosity	Part A: 400 cP Part B: 700 cP
Solids content	97 %
Drying tme at 25°C	6 hrs
Pot life	20 min

(Valeurs nominales)

## THICKNESSES

Concrete Relative Humidity (ASTM F 2170)	Thickness		Coverage	
	µm	mil	m <sup>2</sup> /3.5 L	ft <sup>2</sup> /3.5 L
< 85 %	250	10	13	140
85 - 98 %	2 x 250	2 x 10	7	70

(Valeurs nominales)

### ALSAN TRAFIK EP 110:

#### Mix 3.5 L:

- Part A: 2.17L
- Part B: 1.33L
- Mix A+B (3.5L) covers around 13 m<sup>2</sup> (140 ft<sup>2</sup>) with a wet film thickness of 250 µm (10 mil)

#### Mix 11.4 L:

- Part A: 6.6L
- Part B: 4.8L
- Mix A+B (11.4L) covers around 42 m<sup>2</sup> (455 ft<sup>2</sup>) with a wet film thickness of 250 µm (10 mil)

Note: All coverage rates are approximate and may vary due to the application technique and surface roughness.



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## PROPERTIES

Properties	Standards	ALSAN TRAFIK EP 110
Hardness Shore D	ASTM D2240	65

(Valeurs nominales)

## STORAGE AND HANDLING

Pails must be kept away from heat, humidity or direct sunlight.

**Shelf life:** Up to 18 months when properly stored in original unopened containers. Containers **MUST NEVER BE STORED AT TEMPERATURES BELOW 10 °C (50 °F).**

ALSAN TRAFIK EP 110 system products are irritant, corrosive, and flammable. Store in a cool and dry area. Use in a well ventilated area, far from any open flame. 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).



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