

# ALSAN FLOOR EP

TECHNICAL DATA SHEET 180108SCANE

(supersedes 171219SCANE)



ACCESSORY PRODUCTS

APPLICATIONS

INDOOR APPLICATIONS

## DESCRIPTION

**ALSAN FLOOR EP** is a 100% solids, two-component epoxy system with low odour and low volatile organic compound (VOC) concentration.

**ALSAN FLOOR EP** is designed for indoor applications over concrete substrate. Depending on the desired use and look, this system offers various combinations of the following elements:

**ALSAN FLOOR EP 101**, an epoxy primer.

**ALSAN FLOOR EP 800 (801 to 805)**, an epoxy self-leveling products with several colours. Colours are the following: grey, dark grey, pebble grey, white and beige.

**ALSAN FLOOR EP 900 (901 to 905)**, an epoxy finish coats with several colours. Colours are the following: grey, dark grey, pebble grey, white and beige.

**ALSAN FLOOR EP 951**, a clear epoxy top coat.

## SURFACE PREPARATION

1. Before installing the system, concrete must be completely cured (28 days) with a minimum hardness of 24 MPa (3,500 psi). The surface must be sound, clean and free of debris and dust.
2. Concrete surface must be prepared to obtain a ICRI CSP profile of 3 or 4. The shot blasting method is recommended to obtain such a profile.
3. Concrete substrate should have a maximum internal moisture content of 75 % RH (ASTM F2170) and 1.5 kg/100 m<sup>2</sup>/24 h (ASTM F1869). It must 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 that are wider than 1/16" (1.6 mm) must be repaired with **ALSAN ACTIF**.
5. All upstands (walls, columns, etc) must also be prepared with **ALSAN ACTIF**.
6. Where needed, concrete should be repaired with a mix of **ALSAN TRAFIK EP 101** and silica sand (#70) .

## APPLICATION

1. Once the surface is well prepared, apply primer **ALSAN FLOOR EP 101** by using a roller or a flat squeegee. Mix the contents of Part A for 2 to 3 minutes, then add Part B. Mix again for 2 to 3 minutes until you obtain a homogeneous consistency, and immediately pour the mixture onto the substrate. Pot life after mixing is 20 minutes at 22 °C (72 °F). It must be dry and tack free before applying the next coat (maximum recoat window: 72 h). It is then possible to continue with **ALSAN FLOOR EP 800 (801 to 805)** self-leveling coat or directly apply **ALSAN FLOOR 900 (901 to 905)** top coat with silica sand for anti-slip properties.
2. When **ALSAN FLOOR EP 101** primer is completely dry, apply **ALSAN FLOOR EP 800 (801 to 805)** self-levelling coat with a 6 mm (3/16 in) notched squeegee. Mix the contents of Part A for 2 to 3 minutes, then add Part B. Mix again for 2 to 3 minutes until you obtain a homogeneous consistency, and immediately pour the mixture onto the substrate. Pot life after mixing is 65 to 85 minutes at 22 °C (72 °F). The self-levelling layer must be dry and tack free before applying the next coat (maximum recoat window: 72 h).



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3. Once **ALSAN FLOOR EP 101** primer or **ALSAN FLOOR EP 800 (801 to 805)** self-leveling coat is completely dry, apply the coloured **ALSAN FLOOR EP 900 (901 to 905)** top coat with a roller or a flat squeegee. Mix the contents of Part A for 2 to 3 minutes, then add Part B. Mix again for 2 to 3 minutes until you obtain a homogeneous consistency, and immediately pour the mixture onto the substrate. Pot life after mixing is 75 minutes to 2 hours at 22 °C (72 °F). For an anti-slip finish, broadcast silica sand over the wet coloured finish coating.

4. It is possible to add **DECO FLAKES** or **COLOUR QUARTZ** to the coloured **ALSAN FLOOR EP 900 (901 to 905)** top coat. These additions must be broadcast on the wet coloured top coat. If one of these options is considered, a clear **ALSAN FLOOR EP 951** top coat must be applied when the **ALSAN FLOOR EP 900 (901 to 905)** is completely dry (maximum time to apply the next coat: 72 h).

5. Apply the clear **ALSAN FLOOR EP 951** top coat on the dry coloured **ALSAN FLOOR EP 900 (901 to 905)**, with a roller or flat squeegee. Mix the contents of Part A for 2 to 3 minutes, then add Part B. Mix again for 2 to 3 minutes until you obtain a homogeneous consistency, and immediately pour the mixture onto the substrate. Pot life after mixing is 2 hours at 22 °C (72 °F).

When all coats of the chosen system are applied, wait 72 hours to walk on the surface.

**WARNING** : in order to reduce the **risks of severe burns** due to the high temperature during the exotherm (the mix of Part A and B), IT IS STRONGLY RECOMMENDED TO IMMEDIATELY POUR THE MIXTURE ONTO THE SUBSTRATE AFTER HAVING MIXED THE TWO PARTS.

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.

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



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## PACKAGING

| Specifications                      |        | PRIMER:<br>ALSAN FLOOR<br>EP 101                                                 | SELF-LEVELING COATING:<br>ALSAN FLOOR EP 800                               |           |                                                                                   |       |                                                                            | COLOURED FINISH COAT:<br>ALSAN FLOOR EP 900 |                                                                                 |             |                                                                             |       | CLEAR FINISH COAT:<br>ALSAN FLOOR EP 951 |
|-------------------------------------|--------|----------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------|---------------------------------------------|---------------------------------------------------------------------------------|-------------|-----------------------------------------------------------------------------|-------|------------------------------------------|
| Physical state                      |        | Liquid                                                                           | Self-leveling liquid                                                       |           |                                                                                   |       |                                                                            | Liquid                                      |                                                                                 |             |                                                                             |       | Liquid                                   |
| Product                             |        | 101                                                                              | 801                                                                        | 802       | 803                                                                               | 804   | 805                                                                        | 901                                         | 902                                                                             | 903         | 904                                                                         | 905   | 951                                      |
| Colour                              | Part A | Clear                                                                            | Grey                                                                       | Dark grey | Pebble grey                                                                       | White | Beige                                                                      | Grey                                        | Dark grey                                                                       | Pebble grey | White                                                                       | Beige | Clear                                    |
|                                     | Part B | Yellowish                                                                        |                                                                            |           |                                                                                   |       |                                                                            |                                             |                                                                                 |             |                                                                             |       | Clear                                    |
| Specific gravity<br>@ 25 °C (77 °F) | Part A | 1.14 kg/L                                                                        | 1.28 kg/L                                                                  |           | 1.28 kg/L                                                                         |       | 1.30 kg/L                                                                  |                                             | 1.19 kg/L                                                                       |             | 1.15 kg/L                                                                   |       |                                          |
|                                     | Part B | 1.02 kg/L                                                                        | 1.00 kg/L                                                                  |           | 1.00 kg/L                                                                         |       | 0.99 kg/L                                                                  |                                             | 0.99 kg/L                                                                       |             | 0.92 kg/L                                                                   |       |                                          |
| Packaging                           | Part A | 12.6 L                                                                           | 12.6 L                                                                     |           | 11.7 L                                                                            |       | 12.9 L                                                                     |                                             | 10.9 L                                                                          |             | 12.6 L                                                                      |       |                                          |
|                                     | Part B | 6.3 L                                                                            | 5.9 L                                                                      |           | 5.9 L                                                                             |       | 6.2 L                                                                      |                                             | 6.2 L                                                                           |             | 6.3 L                                                                       |       |                                          |
|                                     | Total  | 18.9 L                                                                           | 18.5 L                                                                     |           | 17.6 L                                                                            |       | 18.5 L                                                                     |                                             | 17.1 L                                                                          |             | 18.9 L                                                                      |       |                                          |
| Coverage                            |        | Mix of A+ B =<br>72m² (780 ft²)<br>Wet film<br>thickness:<br>254 µm<br>(10 mils) | Mix of A+ B =<br>29m² (310 ft²)<br>Wet film thickness:<br>635 µm (25 mils) |           | Mix of A+ B =<br>28 m² (300 ft²)<br>Wet film<br>thickness:<br>635 µm<br>(25 mils) |       | Mix of A+ B =<br>54m² (585 ft²)<br>Wet film thickness:<br>254 µm (10 mils) |                                             | Mix of A+ B =<br>50m² (540 ft²)<br>Wet film<br>thickness:<br>254µm<br>(10 mils) |             | Mix of A+ B =<br>63 m² (680 ft²)<br>Wet film thickness:<br>635 µm (12 mils) |       |                                          |

\* Primer ALSAN FLOOR EP 101 coverage may vary from 37 m<sup>2</sup> to 56 m<sup>2</sup> (400 ft<sup>2</sup> to 600 ft<sup>2</sup>) depending of concrete porosity.

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



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## PROPERTIES

| PROPERTIES                              | Standards                            | PRIMER:<br>ALSAN FLOOR EP 101 | SELF-LEVELLING COATING:<br>ALSAN FLOOR EP 800 |             | COLOURED FINISH COAT:<br>ALSAN FLOOR EP 900 |             | CLEAR FINISH COAT:<br>ALSAN FLOOR EP 951 |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------------------|-------------|---------------------------------------------|-------------|------------------------------------------|
| Product                                 | -                                    | 101                           | 801 to 803                                    | 804 and 805 | 901 to 903                                  | 904 and 905 | 951                                      |
| Brookfield viscosity<br>@ 25 °C (77 °F) |                                      |                               |                                               |             |                                             |             |                                          |
| Part A                                  | -                                    | 870 cP                        | 1400 cP                                       | 3000 cP     | 2700 cP                                     | 5000 cP     | 1600 cP                                  |
| Part B                                  | -                                    | 2150 cP                       | 770 cP                                        | 770 cP      | 500 cP                                      | 500 cP      | 85 cP                                    |
| Solids by weight                        | -                                    | 100 %                         |                                               |             |                                             |             |                                          |
| Bond strength                           | CAN/CSA-A23.1-04/A23.2-04 Section 6B | > 2 MPa                       | > 2 MPa                                       | > 2 MPa     | > 2 MPa                                     | > 2 MPa     | > 2 MPa                                  |
| Hardness (Shore A)                      | ASTM D2240                           | 76                            | 70                                            |             | 78                                          |             | 87                                       |
| Abrasion resistance<br>(weight loss)    | ASTM D4060                           | -                             | -                                             | -           | 50 mg                                       | 95 mg       | 35 mg                                    |
| Pot life<br>@ 22 °C (72 °F)             | -                                    | 20 min                        | 65 min                                        | 85 min      | 75 min                                      | 2 h         | 2 h                                      |
| Fully cured<br>@ 22 °C (72 °F)          | -                                    | 3 h                           | 7 h                                           | 9 h         | 14 h                                        |             | 8 h                                      |

(All values are nominal)

## CLEANING

Tools can be cleaned with **ALSAN RS CLEANER** or petroleum solvents (mineral spirits, Varsol, xylene, etc.).

## STORAGE AND HANDLING

Shelf life of **ALSAN FLOOR EP** is 18 months, when properly stored in original unopened containers. Containers **MUST NEVER BE STORED AT TEMPERATURES BELOW 10 °C (50 °F)**.

**ALSAN FLOOR EP** 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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