

Peran SL LE – Application Instruction Guide

1. Description.

Peran SL LE is a colourful, self-smoothing, low-VOC resin floor finish with a durable matt sealer.

System consists of:

- **Flowprime LE100** – a solvent-free, 2-component epoxy primer with very low VOC Emission rating.
- **Peran SL LE** - a three-component, low-VOC, solvent-free, self-levelling epoxy floor coating.
- **Flowseal PU Matt (Ultra)**– a 2-component, polyurethane-based clear sealer with an extremely hardwearing matt finish.
- or
- **Flowseal PU Anti-Stain**- a 2-component, polyurethane-based clear sealer with a satin-matt finish and enhanced stain resistance.

Specification – material consumption:

a) Primer

- Flowprime LE100 0.30 kg/m²

b) Topping

- Peran SL LE 3.3 kg/m²

c) Sealer

- Flowseal PU Matt (Ultra)
- or 2 coats, 0,05-0,07 kg/m² per coat
- Flowseal PU Anti-Stain

2. Application conditions.

Detailed requirements for substrate and other application conditions can be found in ***Substrate Requirements for Flowcrete Floor Systems***.

Recommended temperatures during floor application process:

- Substrate +10°C - +25°C
- Ambient +15°C - +25°C

In abovementioned temperatures resin flow is optimized for best application effect and assumed material consumptions can be maintained.

Before application, air humidity needs to be checked. Maximum ambient relative humidity for most products: **75%**.

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During application and initial curing of resin, substrate temperature needs to be at least **3 °C higher than current dew point temperature**.

Figures above are general guidelines. Consult individual product Technical Data Sheets for detailed information.

3. Concrete substrate preparation.

Before application of system, substrate needs to be free of laitance and other contaminants that could reduce bond strength of applied coatings. Surface should be prepared by mechanical means – e.g. by shotblasting, grinding, milling etc. All cracks and floor damage has to be repaired before installation of flooring e.g. with epoxy screed using **Peran STC LE** as the resin or levelled with an epoxy scratch-coat (e.g. **Peran STC LE** mixed with fine dry sand).

Flowprime LE100 can be applied onto concrete substrate of humidity up to 5% measured with TRAMEX meter. Concrete bases of higher humidity need to be primed using **Hydraseal DPM**.

In case of any doubts, contact local CPG Technical Department.

4. Application details.

4.1. Priming – Flowprime LE100.

Mixing: Stir Base A before adding Hardener B. Carefully empty Hardener B into Base A. Mix using a low-speed mixer and helical spinner and ensure that the material is thoroughly mixed, taking care not to entrain air. Finally pour the material into another container and mix for a further minute before application.

Flowprime LE100 – mixing proportions:

- A: 8.8 kg
- B: 5 kg

Application: Pour mixed material onto the substrate in stripes and distribute with rubber squeegee, followed by evening out using a medium-pile, nylon paint roller. Make sure that cured layer is continuous, without dry patches and free from pinholes.

Porous substrates might require more than one priming coat.

4.2. Topping – Peran SL LE

Mixing: Stir Base A using a slow-speed mixer and helical spinner to homogenize. Add all Hardener B to Base A and mix thoroughly and take care not to entrain air. Add gradually filler C to the liquid and mix thoroughly for 1 minute. Ensure that all Filler C is mixed in from the sides of the container and fully dispersed throughout the mix. Finally pour the material into another container and mix for a further minute before application.

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NOTE: Do not split individual components as this may jeopardise the end result.

NOTE: Thorough mixing is important to avoid the occurrence of soft, non-hardened patches.

Peran SL LE - mixing proportions:

- Peran SL LE A: 7 kg
- Peran SL LE B: 3 kg
- Peran SL LE C: 12 kg

Application: Immediately spread out Peran SL LE using a toothed rake or notched trowel. Wait for 2-3 minutes and use steel spiked roller to remove air bubbles from the surface. Guide the roller along and across the floor plane for best results.

4.3. Sealer – Option 1 - Flowseal PU Matt (Ultra)

Mixing: Agitate Base A thoroughly and then pour the material into a suitable mixing vessel. Add the Hardener B. Mix thoroughly with a mixing paddle-fitted low-speed drill for approx 2 minutes, ensuring that no air gets drawn in.

Flowseal PU Matt (Ultra) - mixing proportions:

- Flowseal PU Matt (Ultra) A: 5 kg
- Flowseal PU Matt (Ultra) B: 0.5 kg

Application: Use a paint tray and good quality short-haired roller (avoid using rollers that shed a lot of fibre) and avoid rolling in material that has been applied 5 minutes previously.

Do not pour the product directly onto the substrate and avoid making pools.

Never overturn buckets directly on the floor for emptying. Curing problems can occur as a result.

Flowseal PU Matt (Ultra) must be applied evenly in layers not exceeding 100 µm in order to obtain an even matt and bubble-free surface.

If there are large windows or light sources, start there and work backwards to take advantage of the light to achieve an even application. For best final results apply 2 layers in different directions, for example, north to south, then east to west.

Flowseal PU Matt (Ultra) can be applied in several layers provided that the overcoat window is observed. If this time exceeded, the surface must be ground before application of the next layer begins.

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4.4. Sealer – Option 2 - Flowseal PU Anti-Stain

Mixing: Agitate Base A thoroughly and then pour the material into a suitable mixing vessel. Add the Hardener B. Mix thoroughly with a mixing paddle-fitted low-speed drill for approx 2 minutes, ensuring that no air gets drawn in.

Allow the mixed material to stand for 10 minutes, and then mix for another minute prior to application.

Flowseal PU Anti-Stain mixing proportions:

- Flowseal PU Anti-Stain A: 2 litre / 2.06 kg
- Flowseal PU Anti-Stain B: 0.5 litre / 0.54 kg

Application: Use a paint tray and good quality short-haired roller (avoid using rollers that shed a lot of fibre) and avoid rolling in material that has been applied 5 minutes previously.

Do not pour the product directly onto the substrate and avoid making pools.

Never overturn buckets directly on the floor for emptying. Curing problems can occur as a result.

Flowseal PU Anti-Stain must be applied evenly in layers not exceeding 100 µm in order to obtain an even matt and bubble-free surface.

If there are large windows or light sources, start there and work backwards to take advantage of the light to achieve an even application. For best final results apply 2 layers in different directions, for example, north to south, then east to west.

Flowseal PU Anti-Stain can be applied in several layers provided that the overcoat window is observed. If this time exceeded, the surface must be ground before application of the next layer begins.

5. General information.

- Small differences in colour of separate batches are possible. When using materials from different batches, check if their colours match.
- All material components should be kept in the same temperature as the application area (recommended +15 °C - +25 °C).

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- Application of subsequent layer is possible within their respective overcoat windows. See individual TDS for more information.

System curing times:

	+10 °C	+20 °C	+30 °C
Light foot traffic after	48 hours	24 hours	12 hours
Full traffic after	4 days	72 hours	24 hours
Full cure after	12 days	7 days	5 days

Lower ambient temperatures may extend this time window.

- Protect finished floor from stains and dirt until it is fully cured. Do not wash or cover tightly the uncured resin.
- Use and maintain the finished flooring system as described in **Flowcrete Resin Flooring Cleaning and Maintenance Guide**.

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