

Peran ESD SL



Description

Anti-static, hygienic, easy-to-clean self smoothing resin floor finish.

Uses

To provide a hard wearing, seamless, anti-static floor compliant with EN IEC 61340.

Used in dry process areas where the floor is subjected to medium to heavy duty foot, trolley, pallet truck and rubber wheeled fork lift traffic.

Typical uses include laboratories, clean rooms, warehouses, and electronic, aerospace, automotive and printing plants.

Benefits

- Attractive, enhances working environment
- Meets EN IEC 61340 anti-static requirements
- Hygienic – easy to clean
- Non-tainting, non-dusting
- Hard wearing floor finish
- Abrasion resistant

Standard colour chart



Goosewing Grey 222



Tile Red 637



Mid Grey 280



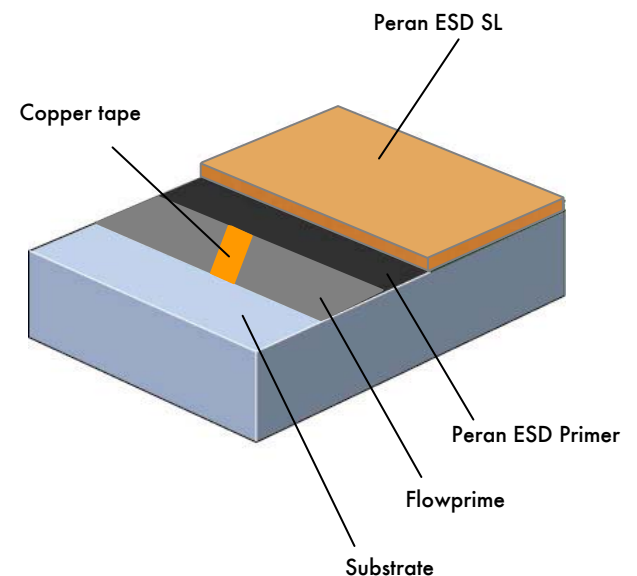
Emerald Green 740



Yellow 340

The applied colours may differ slightly from the examples shown above. Contact our customer services for a true colour sample or a special colour match. Special corporate colours and designs can be produced to special order.

System Design



Model Specification

Product: Peran ESD SL
Finish: Gloss
Thickness: nominal 2 or 2.5 mm
Colour: _____

Preparatory work and application in accordance with suppliers instructions. Supplier: Flowcrete UK Ltd
Telephone : Customer Service - +44 (0) 1270 753000

Substrate Requirements

Concrete or screed substrate should be a minimum of 25N/mm², free from laitance, dust and other contamination. The substrate should be dry and free from rising damp and ground water pressure. If no damp proof membrane is present Hydraseal DPM can be incorporated directly beneath the Peran ESD SL system.

Products Included in this System

2.5 mm system (Standard)

Primer: 1st coat Flowprime @ 0.25 kg/m²
2nd coat Flowprime @ 0.25 kg/m²

Conductive Grid of 10 mm wide copper tape.

Anti-Static Primer: Peran ESD Primer @ 0.4 kg/m²

Topping: Peran ESD SL @ 3.6 kg/m²

2 mm system (economic)

Primer: 1st coat Flowprime @ 0.25 kg/m²
2nd coat Flowprime @ 0.25 kg/m²

Conductive Grid of 10 mm wide copper tape.

Anti-Static Primer: Peran ESD Primer @ 0.4 kg/m²

Topping: Peran ESD SL (economic) @ 2.6 kg/m²

Due to the lower application thickness of the economic system, it requires a smoother substrate with a lower surface profile than if using the standard 2.5 mm system.

In addition, the material and substrate temperatures must be optimum (15-25°C) to ensure a smooth finish.

Conductive Grid

A network of 10 mm wide, self-adhesive, conductive copper tape is always recommended in combination with any Flowcrete anti-static flooring system.

Detailed application instructions are available upon request.

Installation Service

The installation should be carried out by a Flowcrete approved contractor with a documented quality assurance scheme. Obtain details of our approved contractors by contacting our customer service team or enquiring via our web site www.flowcrete.co.uk.

Note

No resin system is totally colour fast and may change colour over time (exhibits a yellowing effect). Colour change depends on the UV light and heat levels present and hence the rate of change cannot be predicted. This is more noticeable in very light colours but does not compromise the product's physical or chemical resistance characteristics. We have endeavoured to adopt colours within our standard range which minimise this change.

Intensively coloured products (e.g. hair colorants, medical disinfectants etc.) and plasticizer migration (e.g. from rubber tyres) can lead to irreversible discoloration in the surface. Please contact our Technical Services Department for further advice.

Technical Information

The figures that follow are typical properties achieved in laboratory tests at 20°C and at 50% Relative Humidity.

| | | |
|--|---|------------------|
| Reaction to fire | C _{FL} - s1 | EN 13501-1 |
| Wear Resistance | Abrasion loss <1 cm ³ | EN 13892-5 |
| Bond Strength | > 2.5 N/mm ² | EN 13892-8 |
| Impact Resistance | 17 Nm | EN ISO 6272 |
| Electrical Resistance | 5x10 ⁴ - 1x10 ⁹ Ω | EN IEC 61340-5-1 |
| Compressive Strength | 60 N/mm ² | EN 13892-2 |
| Flexural Strength | 40 N/mm ² | EN 13892-2 |
| Tensile Strength | 25 N/mm ² | BS 6319-7 |
| Temperature Resistance | Tolerant of sustained temperatures up to 60°C | |
| Vapour Permeability | 0.4 gms / m ² / 24 hours ASTM E96:90 | |
| Water Permeability | Nil - Karsten test (impermeable) | |
| Surface Hardness | 180 secs. Koenig Hardness Test | |
| Chemical Resistance | Contact Technical Department | |
| Toxicity (when cured) | Taint free to sensitive foodstuffs | |
| Slip Resistance | Dry >40 low slip potential | |
| Method described in BS 7976-2 | (in accordance with HSE and UKSRG guidelines) | |
| (typical values for 4-S rubber slider) | | |

The slipperiness of flooring materials can change significantly, due to the installation process, after short periods of use, due to inappropriate maintenance, longer-term wear and/or surface contaminants (wet or dry).

Textured systems are recommended to meet slip resistance value requirements for wet conditions and/ or surface contaminants (wet or dry) - please contact our Technical Advisors for further details and specifications.

Complies with BS 8204-6/FeRFA type 5.

Speed of Cure

| | 10°C | 20°C | 30°C |
|--------------------|---------|--------|--------|
| Light traffic | 36 hrs | 16 hrs | 12 hrs |
| Full traffic | 72 hrs | 48 hrs | 36 hrs |
| Full chemical cure | 12 days | 7 days | 5 days |

Aftercare - Cleaning and Maintenance

Clean regularly using a single or double headed rotary scrubber drier in conjunction with a mildly alkaline detergent.

Important Notes

Flowcrete's products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which can be obtained on request.

Any suggested practices or installation specifications for the composite floor or wall system (as opposed to individual product performance specifications) included in this communication (or any other) from Flowcrete UK Ltd constitute potential options only and do not constitute nor replace professional advice in such regard. Flowcrete UK Ltd recommends any customer seek independent advice from a qualified consultant prior to reaching any decision on design, installation or otherwise.