EPSL-3000 ESD

Dissipative Epoxy Self Smoothing

DESCRIPTION

EPSI-3000 ESD ESD is a high performance, solvent free, pigmented epoxy self smoothing flooring system providing a seamless and durable electrostatic dissipative (ESD) finish for use in static controlled environments.

The system forms a smooth, impervious and hard wearing surface capable of safely and consistently dissipating electrostatic charges. It offers excellent resistance to mechanical wear and chemical attack, whilst ensuring compliance with **EN 61340-5-1**, making it suitable for demanding industrial and commercial applications where reliable static control is critical.

Features & Benefits

- **Controlled electrostatic dissipative (ESD) performance**
- **Seamless self smoothing finish**
- **High compressive strength**
- **High mechanical strength**
- **Excellent abrasion resistance**
- **Compatible with ESD systems**
- **Suitable for static controlled areas**
- **Hygienic and dust free**

Packaging Kit

Standard 25.0 kg kit consisting of:

Part A & Part B (Resins & Hardener):10.0 kg
Part C (Filler): 15.0 kg

Coverage

Typical consumption: **1.75 kg/m² per mm thickness.**
A 25.0 kg kit covers approx. **7.1 m² at 2 mm thickness.**

Coverage may vary depending on substrate porosity, surface profile and application method.

Environmental Conditions

During application and curing, both ambient and substrate temperatures must be controlled between 15 °C and 30 °C. The substrate should always remain at least 3 °C above the measured dew point to prevent surface condensation, which may lead to defects such as pinholes or loss of gloss.

Relative humidity must not exceed 75 % during installation and for the first 48 hours of curing. Adequate ventilation is required to promote correct curing, uniform colour development and consistent surface appearance.

Mixing

All components should be conditioned to 15 °C – 25 °C before mixing. Part A (Resin) is poured into a clean container and Part B (Hardener) is added, mixing with a slow speed drill (300–400 rpm) for approximately 2 minutes until homogeneous. Part C (Filler) is then added gradually while mixing continues until a smooth, uniform blend is obtained. The material must be applied immediately after mixing.

Substrate Requirements

Concrete substrates must have a minimum compressive strength of 25 N/mm² and a cohesive strength of at least 1.5 N/mm². Moisture content must be below 75 % RH unless a moisture tolerant primer is used.

The surface must be free from laitance, dust, grease, curing agents and loose material. Mechanical preparation such as shot blasting or diamond grinding is recommended to achieve an open textured surface suitable for coating adhesion.

Priming Requirements

EPSI-3000 ESD must be applied over a primer to ensure adhesion:

- Dry substrates (<75 % RH): apply **EPR-100 Solvent Free Epoxy Primer.**
- Damp substrates (>75 % RH): apply **DPM-230 Moisture Tolerant Epoxy Primer.**

Highly porous substrates may require the application of two primer coats to achieve full surface sealing.

Following priming, **conductive copper tape** (10–12 mm wide) with conductive adhesive should be installed to establish electrical continuity. The surface should then be primed with **WB-120 ESD** Primer to provide a conductive layer prior to the application of the **EPSL-3000 ESD.**

Product Application

EPSI-3000 ESD is poured onto the prepared and primed surface and spread using a notched trowel or pin rake to achieve the desired thickness (typically 2–3 mm). The material will self level. Spiked rolling must be carried out immediately after application to release trapped air and ensure a uniform finish.

Appearance

Smooth, seamless self levelling finish with a gloss appearance.

Chemical Resistance

EPSI-3000 ESD resists a wide range of oils, alkalis, salts and dilute acids. For specific resistance enquiries, contact the Technical Department.

Product Confines

EPSI-3000 ESD should only be applied when relative humidity is below 75 % and substrate temperature is at least 3 °C above the dew point. The system performs reliably up to 60 °C in continuous service. Slight colour variation may occur in light colours upon UV exposure without affecting performance.

Cleaning

EPSI-3000 ESD floors should be maintained through regular cleaning with scrubber dryers or rotary machines fitted with soft pads, using a neutral pH cleaning solution diluted in warm water. Daily sweeping or vacuuming is recommended to remove dust and grit that may cause scratching. Spills of food, oils or chemicals should be removed immediately with a damp mop to prevent surface staining.

For periodic maintenance, a mild neutral detergent may be applied followed by rinsing with clean water. The use of abrasive powders, steam cleaners, highly alkaline or acidic products must be avoided, as they can damage or dull the glossy finish.

Health & Safety

Refer to the Safety Data Sheet (SDS) before use. Applicators must wear appropriate PPE including chemical resistant gloves, safety glasses and respiratory protection in poorly ventilated areas.

Disposal of Containers

Empty containers must be treated with the same precautions as full ones and disposed of via an authorised hazardous waste contractor.

Any remaining Part A and B should be mixed together and allowed to cure before disposal.

Additional Information

Jofa Resins endeavour to ensure that all product guidance provided is accurate and correct. Information given by or on behalf of Jofa Resins is based on tests and installations and on our current knowledge and experience. It implies no warranty or guarantee arising from the use of its products as the substrate and site conditions and the actions of any installation team involved in product application is beyond our control. Whether or not in accordance with any advice, recommendation, specification, or information given by Jofa Resins.

Jofa Resins products are guaranteed against defective materials and manufacture and are sold subject to our standard terms and conditions of sale, copies which can be obtained upon request.

Please contact the Jofa Resins Technical Department for further assistance.

TECHNICAL INFORMATION

Shelf Life	24 Months when stored in unopened containers under proper conditions.
Pot Life Temp 20°C	20 to 25 Minutes
Curing Schedule 20°C	**Foot traffic:** 24 h • **Light traffic:** 48 h • **Full cure**: 7 days
FeRFA Floor Guide	Type 5
Storage	This Product must be stored off the ground in original packaging, unopened and un-damaged. The ambient conditions must be dry and between 10°C and 30°C with no direct sunlight. Protect from frost.
Electrical Resistance EN 61340-5-1	$5 \times 10^4 - 1 \times 10^9 \Omega$
Body Voltage Generation EN 61340-4-5	< 100 V
Temperature Resistance	Up to 60 °C
Compressive Strength EN 13892-2	>45 N/mm²
Flexural Strength EN 13892-2	≥ 10 N/mm²
Abrasion Resistance EN 13892-4	AR0.5
Impact Resistance EN ISO 6272	≥ 5 Nm
Fire Classification EN 13501-1	B_{fl}-s1
Adhesion Strength EN 13892-8	>2.5 N/mm²

The above values, based on laboratory tests and our practical experience with this product, represent typical properties measured under standard laboratory conditions of 20 °C and 50 % relative humidity.

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