



DRI-FLOOR ESD 1600 PRIMER

2-part, water-dispersed epoxy resin with high electrostatic conductivity

Applied as a primer to form a conductive layer for anti-static conductive and dissipative resinous flooring systems, such as Dri-Floor ESD 1600

FEATURES/BENEFITS

- Electrostatically conductive
- Easy application
- Excellent adhesion

APPLICATION AREAS

- Electronic industries
- Chemical industries
- Pharmaceutical industries
- Laboratories
- Aerospace industries
- Areas that require conductive floors or clean environments

PRODUCT DATA

Appearances / Colours	Black
Packaging	5kg set
Storage	12 months from date of production
Storage Condition	Stored at cool & dry conditions in original unopened packaging. Storage should not be at very low temperatures as this will affect product workability.

TECHNICAL DATA

Origin	Epoxy
Density	Approx. 1.11 kg/l ± 0.05 (mixture)
Workability	<ul style="list-style-type: none">• 90 minutes @ 10°C• 60 minutes @ 20°C• 30 minutes @ 30°C
Overcoating Time (after Dri-Floor EP 1000 coat)	<ul style="list-style-type: none">• 36 hours – 6 days @ 10°C• 1 – 4 days @ 20°C• 12 hours – 2 days @ 30°C
Open to Foot Traffic	<ul style="list-style-type: none">• 48 hours @ 10°C• 24 hours @ 20°C• 12 hours @ 30°C
Application Temperature	10 – 30 °C
Recommended Consumption	0.08 – 0.10 kg/m ²

* Curing time may vary and are subjected to ambient conditions.

TECHNICAL PROPERTIES

Electrical Resistance	$10^3 < R_E < 10^4 \Omega$ (EN 1081) [Typical resistance at earth points – values may vary depending on site condition and equipment used]
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SUBSTRATE

New concrete should be cured for at least 28 days and should have a pull-off strength $\geq 1.5 \text{ N/mm}^2$ and minimum compressive strength of 25 MPa.

Loose friable material and weak concrete must be completely removed and substrates should be clean, dry and free of contaminants such as oil, dirt, grease, etc. Substrate must have sufficient gradient for surface water to run off easily without ponding water. Construction joints, existing non-structural surface cracks in substrate require rectification/treatment before application. Please contact Dritech Chemicals Sdn. Bhd. for a suitable repair mortar or repair method.

Installation of copper band strips prior to the application of Dri-Floor ESD 1600 Primer and subsequently Dri-Floor ESD 1600 is required in order to create an electrically conductive system.

MIXING

Dri-Floor ESD 1600 Primer consists of a base & a hardener component supplied in pre-batched packs. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved. After that, add Part B (hardener) to Part A. Mix continuously for approx. 2 minutes or until a uniformly coloured mix is achieved. Take care to ensure mixing is not done excessively to prevent air entrainment. Scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing.

To ensure the correct mixing ratio & for ecological reasons, packs should be emptied thoroughly. It is recommended to mix in full sets.

APPLICATION

Application of Dri-Floor ESD 1600 Primer is done over the surface to be treated and over installed copper strips on the surface by short-pile roller in two directions at right angles to each other. It is imperative that sufficient consumption of Dri-Floor ESD 1600 Primer is used so that uniform electrical conductivity is achieved.

After the product has cured, the electrical resistance measurement should be conducted. (Resistance to earth R_E should be below $3 \times 10^3 \text{ ohm}$ using 10V).

The recommended number of tests are as below:

- Below 10 m²: 1 test per m²
- 10 – 100 m²: 10 – 20 tests
- More than 100 m²: 10 tests per 100 m²

CLEANING

Clean tools and equipment with water immediately after use. Hardened material can only be removed mechanically.

LIMITATIONS

- Ensure application is done when temperature of substrate is $>3^\circ\text{C}$ than the dew point.
- Do not apply on substrates with rising moisture or on substrates with moisture content of $>4\%$.
- Freshly applied coatings should be protected from damp, condensation, and water for at least 24 hours.
- Ensure consumption does not exceed 0.10 kg/m^2 , otherwise the adhesion of Dri-Floor ESD Primer to the substrate and electrical conductivity may be affected.
- Do not dilute Dri-Floor ESD 1600 Primer with water or solvents.
- Do not sprinkle aggregates or dry quartz sand over the product.

HEALTH & SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTE

The information, and, in particular, the recommendations relating to the application and end-use of these products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance to the manufacturer recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. The manufacturer reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.