



i-SEAL[®] SLE ESD

PRODUCT DATA SHEET. 031901

1 Marketing Data

Product Description

i-SEAL[®] SLE ESD is a solvent free self-levelling epoxy incorporating ESD (electrostatic discharge) ingredients to applied at 1mm nominal thickness to achieve conductive property.

Intended Use

i-SEAL[®] SLE ESD is used as a hard-wearing seamless ESD flooring in electronic facilities, pharmaceutical plants, warehouses with explosive products, and many other places with ESD requirement.

Features

- ✓ Seamless & Hygiene
- ✓ Solvent-free and 100% solid
- ✓ Comply to Industry ESD requirement
- ✓ Non objectional smell during installation
- ✓ Good chemical resistance.
- ✓ High abrasion resistance.
- ✓ Wide range of colours.
- ✓ Fast installation.

Maintenance

In order to retain the quality of the synthetic resin flooring for a long time we recommend regular maintenance. Please ask us for our Maintenance Guide.

Note

The characteristic data are approximate values calculated by us. They do not represent warranted characteristics. Consequently, no liability claims of any kind may be derived from the Technical Data Sheet.

(A) Production Data	
Liquid mixture	SLE ESD
1. Solids content (%)	100
2. Density (g/cm ³ @ 30°C)	1.6
3. Viscosity (mPas @ 30°C)	5000-6000
4. Packaging size* (2/3-component container in total kgs)	20/30
5. Colours	Our Standard Colour chart, other colours upon request
6. Shelf life / storage	12 months

*This Standard Packaging will vary based on size of site during application and work-force

EPPOLY ASIA SDN. BHD.

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2 Processing Instructions

Substrate Preparation

The substrate should be enclosed grind, shot-blast or scarified to be clean and free of dust and loose particles. All traces of contaminants such as oils, fats, greases, paint residues, chemicals, algae and laitance should be removed.

Allow new concrete to fully cure (28 days @ 25°C) prior to application to achieve at least 25N/mm² compressive and 1.5N/mm² tensile strength. Remove any curing membrane by sanding or etching with a strong detergent.

Existing contaminated concrete needs to be thoroughly cleaned with a degreaser to remove grease and oils. Remove any loose or unsound concrete by chipping, scarifying, shot-blasting, sanding, or grinding.

Application on concrete with existing old coatings should be considered short term because the coating system is only as durable as its weakest component. Remove any peeling or degraded paint by sanding, shot-blasting, scarifying or using a paint stripper. For intact paint, thoroughly clean the surface with a strong detergent, then lightly sand to remove any gloss. Treat any areas worn down to the original concrete as bare concrete.

Use i-SEAL[®] EM 204 to level any undulated and damaged substrate. i-SEAL[®] EM 204 should also be used as a permanent moisture suppressant system for high moisture and uprising moisture substrate.

Typical System

The products in the system include;

- 1) i-SEAL[®] EP 200
- 2) i-SEAL[®] EP ESD PRIMER
- 3) i-SEAL[®] SLE ESD

Processing

The products in the system are multi-components and pre-packed in sets. Each sets requires effective and homogenous mixing using drill and helical spinner with the least inclusion of air in a clean mixing barrel prior to applying.

i-SEAL[®] EP 200 is proportioned 2 component priming products which are spread on the floor by squeegee and finished with roller. This is followed by fixing of copper tape grids which is connected to the grounding point safely.

i-SEAL[®] EP ESD PRIMER is proportioned 2 component heavily carbon filled priming products which are spread on the floor by squeegee and finished with roller

i-SEAL[®] SLE ESD is proportioned 3 component self-levelling top coat applied on the cured primer by squeegee, trowel and spike roller.

Please refer to our system specification for the detailed processing procedures.

Reworking

If reworking within 24/36 hours after application the coating need not be sanded. Reworking later than that is only possible after sanding it carefully.

Health & Safety

Appropriate health and safety advice can be found in the Material Safety Data Sheets. Users are advised to wear gloves and eye protection when mixing or applying i-SEAL[®] SLE ESD System.

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(B) Product Application Data

Liquid mixture	SLE ESD
1. Processing time (mins @ 30°C)	30
2. Processing temperature	15–35°C (min. 3°C above dew point)
3. Material consumption** (g/m ²)	1600
4. Can be walked on (after @ 30°C)	24 hours
5. Consecutive layer (within @ 30°C)	36 hrs.
6. Fully capable of withstanding stress mechanical (20°C) chemical (20°C)	after 3 days after 7 days

**Consumption will vary dependant on undulation and absorption of the substrate

(C) System Performance Data

Cured material	
1. Adhesive pull strength (ASTM D 4541)	> 1.5 N/mm ² (Concrete Failure)
2. Abrasion resistance (ASTM D 4060)	60 mg/1000 cycles
3. Shore-D-hardness (ASTM D 2240)	80
4. Compressive Strength (ASTM C579)	>80
5. Tensile Strength (ASTM D638)	25
6. Gloss	High gloss
7. ESD Properties (IEC 61340-4-1:2003)	10 ⁴ –10 ⁶ Ohms Resistance
8. Light-fastness (DIN EN ISO 105-B02)	6 (Scale 1–8, 8=best)

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