

## Evoshine ESD 101

ESD Flooring | Static dissipative

### Description:

Swadi ESD 101 is a multi-layered self-levelled epoxy system, which provides you with a highly durable, customizable, sustainable & attractive work space with chosen colour.

### Brief:

Swadi ESD 101 is designed to control the electrical resistance of the floor by inhibiting static electricity, thus preventing damage from random static discharge. To predict the ESD floor of ground charges, we measure its electrical resistance, that's the capacity of a flooring material to resist, or reduce, the flow of electricity.

To comply with all industrial standards, our electrical resistance measures fall within the ideal range (or) Safest electrical range which come between  $1.0 \times 10^5$  to  $1.0 \times 10^8 \Omega$  (ohms).

### Where to use:

- Electronics, plat panel, and medical device manufacturing
- Cleanroom manufacturing
- Computer and electronics handling, assembly or repair
- PCB soldering or rework
- Telecommunication installation areas

### Features & benefits:

- Provides a safest electrical resistance
- Highly durable & seamless flooring
- Excellent chemical resistance
- High mechanical strength
- Free of solvents
- Ready with a wide range of attractive colour choice

Technical Data	
Type	Epoxy
Flash point	Non-flammable
Pot life (ASTM D 2471)	30 minutes
Electrical range (IS 8374 & IEC 61340-4-5)	$1.0 \times 10^5$ to $1.0 \times 10^8 \Omega$ (ohms).
Body voltage generation (BVG) (IS 8374 & IEC 61340-4-5)	<100V
Water permeability	Nil
Compressive strength (ASTM D - 695)	$\geq 40 \text{ N/mm}^2$
Flexural strength	

(ASTM D – 790)	$\geq 20 \text{ N/mm}^2$
Tensile strength (ASTM D – 638)	$\geq 15 \text{ N/mm}^2$
Abrasion resistance (ASTM D – 4060)	70 mg loss
Surface dry (ASTM D – 1640)	8 hours
Coverage	6 Sqm / Kit @2mm thickness
Shelf life	12 months

### Substrate requirements:

Ensure the concrete floors are at least 28 days old with a moisture content below 5%. The substrate should have a minimum strength of 25mPa and be free from rising damp, ground water pressure, grease, oil, laitance, and any chemical substances.

### Design of Screed System

Product	Thickness
Swadi Primer	200 Microns
Swadi Screed	2mm to 6mm thickness
Copper Tape	Conductive grid of 12mm wide copper tape
Swadi Antistatic primer	200 microns
Swadi Topcoat	1mm to 6mm thickness

### Design of Non-Screeding System

Product	Thickness
Swadi Primer	200 Microns
Copper Tape	Conductive grid of 12mm wide copper tape
Swadi Antistatic primer	200 microns
Swadi Topcoat	1mm to 6mm thickness

### Health & Safety

For further information, please go through the Material Safety Data Sheet (MSDS).

### Storage and Shelf life /Precautions /Disposal /Spillage

For further information please refer to the Material Safety Data Sheet.

### Conditions of Sale

Sold subject to the Company's conditions of sale which are available on request

**DISCLAIMER**

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products. However, as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

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