



System data sheet

Temafloor PU ESD

A FLEXIBLE AND HIGHLY DURABLE ELECTROSTATIC DISCHARGE (ESD) COATING SYSTEM
INDOOR: FOR THE ELECTRONICS INDUSTRY, POWER PRODUCTION PLANTS AND DATA CENTRE IT ROOMS

Temafloor PU ESD is a polyurethane coating system that protects against electrostatic discharge (ESD). It forms a self-levelling 2 mm layer that is flexible, highly durable and chemically resistant.

The Temafloor PU ESD system ensures safety and efficiency in areas where static electricity and sparks pose a danger to sensitive equipment, as well as in areas used for the electronics industry, power production plants and data centre IT rooms.

Approvals and standards

The Temafloor PU ESD system is M1-classified and CE marked with a Declaration of Performance according to EN 1504-2 for the surface protection of concrete. The system meets the requirements of IEC-EN 61340-5-1.

Colours

Temafloor PU ESD is available in light grey RAL 7035, grey TVT 0229 and dusty grey RAL 7037.

BENEFITS

- ELECTROSTATIC DISCHARGE (ESD) PROTECTION
- FLEXIBLE, IMPACT RESISTANT AND HIGHLY DURABLE
- IMPERMEABLE WITH A CHEMICAL-RESISTANT TOP LAYER
- FORMS AN EASY-TO-CLEAN SMOOTH GLOSS SURFACE
- MEETS THE REQUIREMENTS OF IEC-EN 61340-5-1



Technical information

The Temafloor PU ESD system is suitable for indoor use. Adhesive copper tape needs to be applied to the floor during installation to ensure earthing to the grounding point. Please refer to the separate ESD taping instruction.



System structure, 2 mm

	TEMAFLOOR PU ESD
1. PRIMER	Temafloor 402M or Fontefloor EP 100 (~0.25 l/m ²). For damp concrete (RH > 97%): Temafloor 220W Primer
	ESD tape installation
2. CONDUCTIVE PRIMER	Fontefloor EP ESD Primer (0.3 l/m ²)
3. CONDUCTIVE TOPCOAT	Temafloor PU ESD (2.0 l/m ²)

Environmental information

Containers are provided with safety labels, which should be observed.

Further information about hazardous effects and recommended protection are detailed in individual health and safety data sheets.

The product is non-hazardous when fully hardened, forming a seamless, durable and long-lasting surface that reduces the need for repairs, cleaning and maintenance.

Application information

The relative humidity of the concrete should not exceed 97% (for higher relative humidity, Temafloor 220W Primer should be used). The residual moisture content should be below 4 weight-%.

The temperature of the ambient air, surface or coating should not fall below +15°C during application or drying. The relative humidity of the air should not exceed 70%.

Substrate requirements

The substrate must have a tensile strength above 1.5 MPa. For application on cementitious levelling screed, check compatibility with the screed manufacturer.

Cleaning and maintenance

Floors coated with the Temafloor PU ESD system can be cleaned with conventional, neutral or alkaline cleaning agents.

For detailed maintenance and repair guidelines, please contact your local Tikkurila representative.

More information on how to clean and take care of Temafloor PU ESD system surfaces can be found in the info sheet:

[Cleaning and care of Temafloor surfaces](#)

Temafloor PU ESD system technical parameters

TOTAL FILM THICKNESS	2 mm
FULLY CURED	7 days (+23°C)
RELATIVE HUMIDITY OF CONCRETE	< 97%
TEMPERATURE DURING PAINTING	+15°C to +35°C
COLOUR SHADE	TVT 0229, RAL 7035, RAL 7037
COMPRESSIVE STRENGTH, ISO 604	< 20 Mpa
ADHESION TO CONCRETE, EN 1542	≥ 2 MPa
CAPILLARY ABSORPTION AND WATER PERMEABILITY, EN 1062-3	w<0.1 kg/m ² h ^{-0.5}
PERMEABILITY TO WATER VAPOUR, EN ISO 7783-1	Class II, 5 m < sD < 50 m
IMPACT RESISTANCE, EN ISO 6272-1	Class II ≥ 10Nm
ABRASION RESISTANCE, EN ISO 5470-1	< 3000 mg
REACTION TO FIRE, EN 13501-1	C _{ii} -s1
ELONGATION AT BREAK, ISO 37	40 %
RESISTANCE TO GROUND, EN 61340-4-1	Rg < 10 ⁹ Ω (< 10 ⁸ Ω for newly installed floors)
CHEMICAL RESISTANCE	Varies according to topcoat used: see separate chemical resistance table