

RachTR Floor ESD-1000 is a self-levelling epoxy-based electrostatic dissipative (ESD) flooring system designed to provide permanent and uniform static dissipation while delivering excellent mechanical strength, abrasion resistance, chemical resistance, and an aesthetically seamless finish. The system is formulated with advanced conductive additives to ensure reliable conductivity without carbon fibre hotspots.



PRODUCT BENEFITS

- Permanent Electrostatic Dissipative (ESD) Performance
- Uniform Conductivity without Carbon Fibre Hotspots
- Excellent Abrasion & Chemical Resistance
- Seamless, Hygienic & Easy-to-Clean Surface
- Conductivity Independent of Humidity
- High Durability & Low Maintenance



RECOMMENDED FLOORS

- Electronics manufacturing units
- Semiconductor industries
- Pharmaceutical plants
- Data centres
- Clean rooms
- Telecommunication facilities
- Defence and ordnance industries
- Assembly areas for ESD-sensitive equipment
- Laboratories
- Control rooms



TECHNICAL INFORMATION

Mixing Ratio: A: B:C:D (Pre-Weighed Kit)
Percentage of Solids: 95%
Flash point: Non-Flammable
Surface Resistance: $1 \times 10^6 - 1 \times 10^9$ Ohms
Application Method: Trowel & Spike Roller
Clean Up: Thinner / Solvent

Shelf Life: 12 months, if stored in original container



PACK SIZE

Supplied in pre-weighed four-component kit comprising:
Part A – Resin – 4.45 kg
Part B – Hardener – 2.225 kg
Part C – Filler – 8.5 kg
Part D – Pigment – 0.3 kg



COVERAGE

Approximately 10 m² per pre-weighed kit (depending on substrate condition and application thickness).

The above information is based on the latest stage of our development and application technology. Due to multiplicity of influencing factors, this information must be considered as nonbinding. Because conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

TECHNICAL DATA



MECHANICAL PROPERTIES

Compressive Strength	BS 6319	>60 N/mm ²
Flexural Strength	BS 6319	>30 N/mm ²
Tensile Strength	BS 6319	>19 N/mm ²
Bond Strength	ASTM D4541 (Pull-off)	>1.5 MPa (Concrete Failure)



CURING CHARACTERISTICS

Pot Life	30 minutes
Surface Dry	8–10 hours
Tack Free	24 hours
Light Traffic	24 hours
Full Service	7 days

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INSTRUCTIONS



METHOD OF APPLICATION

SUBSTRATE PREPARATION

The concrete substrate shall be sound, dry, and free from dust, laitance, oil, grease, curing compounds, and other contaminants that may impair adhesion. Surface preparation should be carried out by shot blasting, diamond grinding, or scarifying followed by vacuum cleaning. Defects such as cracks, holes, and surface irregularities should be repaired using suitable RachTR repair materials.

PRIMING

Apply a suitable RachTR Epoxy Primer to the prepared substrate. Allow the primer to become tack-free before application of the ESD flooring system.

MIXING

RachTR Floor ESD-1000 is supplied as a pre-weighed multi-component kit. Mix Part A, Part B, Part C, and Part D using a slowspeed electric mixer (300–500 rpm) for 3–5 minutes until a homogeneous, streak-free mixture is obtained. Do not add solvent or water.

APPLICATION

Immediately pour the mixed material onto the primed substrate and spread uniformly using a notched trowel to the required thickness. De-aerate the surface using a spike roller immediately after application to remove entrapped air and obtain a smooth finish. Protect the applied floor from moisture, dust, and traffic until fully cured.



STORAGE & SHELF LIFE

Store the product in its original, unopened, tightly sealed containers in a cool, dry, and well-ventilated place between 5°C and 35°C. Protect from direct sunlight, moisture, frost, and excessive heat. Under recommended storage conditions, the product has a shelf life of 12 months from the date of manufacture.



SAFETY

or professional use only. Wear appropriate personal protective equipment (PPE), including chemical-resistant gloves, safety goggles, protective clothing, and suitable respiratory protection where necessary. Avoid contact with skin and eyes and do not inhale vapours during mixing and application. In case of contact, rinse immediately with plenty of clean water and seek medical attention if irritation persists. Refer to the latest Safety Data Sheet (SDS) for complete information on handling, storage, first aid, and disposal.