



Electrostatic discharges (ESD) often occur unnoticed—but their consequences don't: processes can be disrupted, sensitive electronics can be damaged, and in certain areas ESD is a safety-relevant factor. In ESD-critical environments, flooring systems are therefore required that do not “allow” electrical charge to build up but instead absorb it in a controlled manner and dissipate it reliably. This is exactly where a dissipative resin floor comes in—as a functional part of the overall protection concept that safeguards equipment, products, and operations.

With GRANUCOL® CONDUCT, Dorfner offers conductive fillers for anti-ESD floor coatings. At the core is a high-strength quartz kernel combined with a conductive coating. This design brings together two requirements that belong together in practice: mechanical durability for industrial floors and reliable dissipation to prevent electrostatic discharges. Even low addition rates can enable very low resistance values—supporting highly effective charge dissipation in ESD flooring systems.

#### **System principle: Dissipation results from the interaction of layers**

A dissipative floor is a system solution. A typical build-up includes a primer, a leveling layer (e.g., with crystal quartz), a conductive layer (conductive plane), a base/broadcast layer containing GRANUCOL® CONDUCT, and a seal coat. In addition, grounding via copper tape ensures that excess charges are reliably conducted away. This creates a defined conductive path - functional, reproducible, and tailored to the requirements of modern resin systems.

#### **Robust in daily use – efficient to apply**

The conductive colored layer is UV-resistant and mechanically durable; it bonds very well into the resin matrix and remains visually stable. At the same time, GRANUCOL® CONDUCT is suitable for many dissipative reactive resin systems and supports cost-efficient formulations—with strong performance at low use levels. For mortar and self-leveling systems, the fillers are also designed rheologically to ensure reliable, process-safe application.

#### **Where dissipation matters**

Typical fields of application include the electronics and semiconductor industry (protection against ESD damage and process disruptions), healthcare facilities (protection of sensitive medical technology), and chemical/pharmaceutical environments—especially where explosion protection requirements must be considered.

#### **Design included: colors & grain sizes**

In addition to performance, GRANUCOL® CONDUCT offers design flexibility: various grain sizes from 0.1–0.3 mm up to 1.0–1.8 mm (depending on the grade) are available, along with classic and additional color shades. This makes it possible to plan functional surfaces with a distinct visual appearance—from subtle to bold.