

Smart solutions for static control in flooring

Long-term anti-static additive

Reasons to choose Ionphase:

- Long-lasting static control
- Colorable
- Non-migrating
- Not humidity dependent

Cargill™ Ionphase™ trSTAT additive



Designed for use in PVC applications, Cargill™ Ionphase™ trSTAT additive seamlessly integrates into extrusion and compounding processes. The additive's non-migrating nature achieves electrostatic discharge (ESD) performance without using conductive fillers like carbon black, allowing for light or fully colored components in flooring.

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Static-dissipative flooring plays a critical role in environments where ESD or dust buildup can compromise safety and cleanliness which may affect sensitive electronics or create ignition risks. To meet safety requirements in hospitals, industrial EX areas, and electrostatic protected areas, flooring materials must comply with safety standards while maintaining long-term performance and durability.

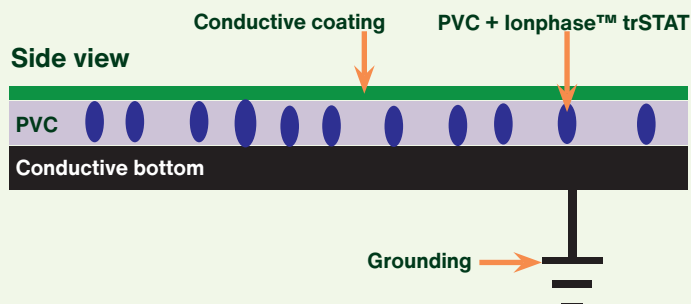
The challenge: Limited color range in static-dissipative flooring

A leading global PVC manufacturer sought to expand its product portfolio to develop lightly-colored, ESD-safe flooring that meets growing aesthetic and performance expectations. The manufacturer historically relied on carbon-based additives to achieve conductivity and while effective, these additives typically produce dark or black flooring which limits design flexibility. As architects and facility planners increasingly prefer a variety of options and modern color palettes, flooring manufacturers face a challenge: how can the flooring achieve permanent ESD protection without compromising aesthetic requirements?

The solution: Cargill™ lonphase™ trSTAT additive

Cargill's lonphase™ trSTAT additive supports safer PVC flooring by functioning as a long-lasting, non-migrating anti-static additive that prevents the buildup of electrostatic charge. It works by reducing the volume resistivity of the PVC, which allows static electricity to dissipate rather than discharging suddenly, protecting both people and sensitive electronic equipment. Unlike traditional conductive

materials, lonphase™ trSTAT additive is a colorable additive that can be used in light or brightly colored PVC, offering ESD protection without aesthetic restrictions.



The impact: Improved ESD performance & colorability

The introduction of lonphase™ trSTAT additive enabled the PVC flooring manufacturer to create ESD-safe flooring with the following benefits:

- Consistent static-dissipative performance at 20% dosage in PVC pellets, totaling 1-2% lonphase™ trSTAT inclusion in end product
- Light and fully colored flooring options, expanding design possibilities
- Long-term stability, retaining performance in high traffic areas



Contact us to discover how Cargill™ polymer additives can provide static control within your operation.

Learn more at cargill.com/polymeradditives
or email polymeradditives@cargill.com



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