

A development with a sensitive charge

Bolidt Synthetic Products & Systems has succeeded in developing two synthetic flooring systems for the electronics and high-tech industry. An industry, that involves working with sensitive, electronic equipment, highly inflammable substances or materials which are extremely receptive to static loads. The greatest challenge here is to manage the problem of static electricity.



It is not uncommon for an electrostatic discharge to cause damage to the production process and electronic components. This can be solved by accelerating the discharge of the electric load. In order to deal with this issue one has to first look at the base: the floor. In consultation with users in the electronics industry and the Prevention and Health department of TNO (Dutch organization for Applied Scientific Research), Bolidt has determined which requirements the flooring systems should meet in order to reduce the harmful consequences of electrostatic discharge.

Bolidt has developed the ESD-safe [Bolidtop Stato flooring](#)®. The principle of this flooring system is that the body is allowed to be charged and that controlled discharge takes place. This way the actual body charge is limited. In addition to its antistatic and electrically conductive properties, Bolidtop Stato flooring offers all the advantages of modern synthetic flooring, such as surface texture, durability and colour options. Bolidtop Stato flooring is tailored to the user requirements per project.

On the principle that “prevention is better than cure” Bolidt has proceeded with the development of flooring systems for the electronics industry. The basic idea being the prevention of static charge, instead of controlled discharge, and the prevention of potential body charge caused by friction.

The phenomenon of static charging mainly occurs in spaces in which people are working with sensitive, electronic equipment, highly inflammable substances or materials which are extremely receptive to static loads.

Every activity, such as walking on a floor, causes friction. Since floor covering and/or our footwear is usually electrically insulated, our body turns into a storehouse of static electricity. The discharge takes place when objects which have a lower potential are touched and causes an unpleasant shock. For electronic devices the consequences of this discharge are worse and often involve malfunctions.

Bolidt's solution was to introduce [Bolidtop E.lo-flooring](#)®. The first synthetic flooring system that does not cause static charging. This synthetic flooring solution prevents the exchange of electrons between footwear and flooring. As a consequence, it disables the generation of electrostatic charge on the body.

Flooring in combination with footwear has been the starting point for the development of Bolidtop E.lo-flooring. Bolidt has all the disciplines required for such developments available within its organization. Accordingly, the seamless application of the flooring products is performed by its own specialized application teams. In addition, Bolidt has a laboratory at its disposal so that the synthetics can be given exactly the required composition and colour.

For more information, please click on [Electronics and High-tech](#).