



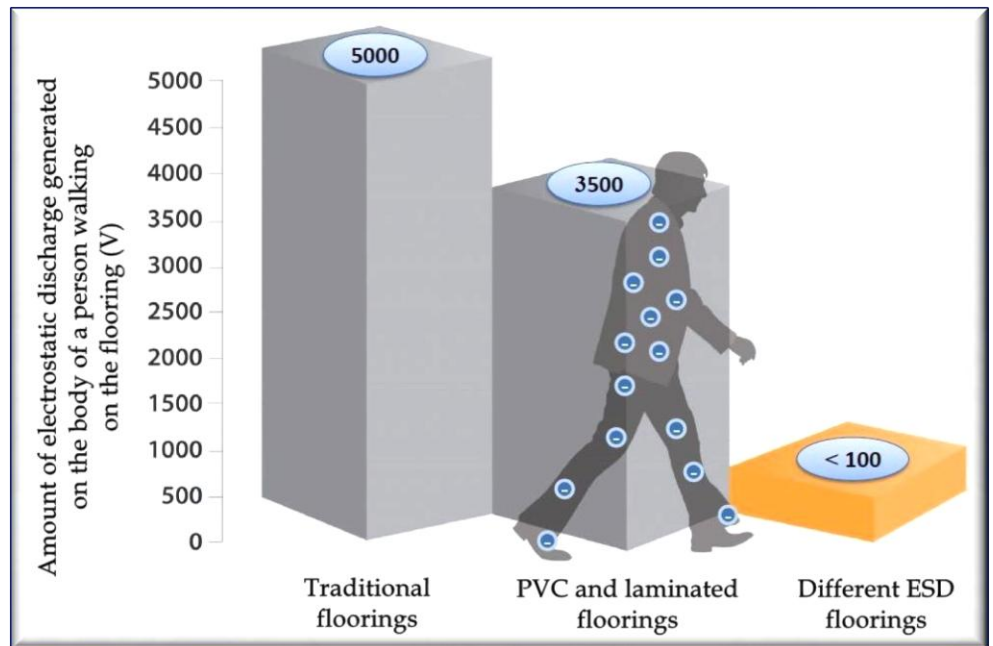
ESD SANDED CONCRETE FLOORING

10-year warranty



Electronical parts shall be protected from electrostatic discharge (ESD) during manufacturing and assembly. This phenomenon can occur by direct contact, separation, striking or friction. Other damages can be caused by induction generated by a changing magnetic field, sudden temperature changes, ionization, etc. Even nozzles using compressed air are able to generate an amount of charge that can damage an electronical product being manufactured.

The most important danger is the human presence itself. While walking, a huge amount of electrostatic charge accumulates in the human body, which is discharged through objects having the lowest resistance. It is the same phenomenon as when taking off a piece of clothing made of synthetic fiber, where small blue flashes are generated; all of us have encountered this when changing clothes.



The average lifespan of PVC, synthetic resin or other conductive floorings is 7 years. During this period, the flooring damages – that can be esthetical or, on the other hand, can lead to a partial decrease of the ESD protection – have to be repaired several times. During flooring replacement, even several weeks/months of idle times can occur. The dismantled flooring is considered hazardous waste.

On the contrary, on the ESD sanded concrete surface, no foreign material is applied. The surface consists of the concrete slab itself. Its lifespan is equal to the lifespan of the concrete. The sanded concrete surface is harder than any other flooring and is thus less sensible to damages. Easy to clean. No more forklift tire tracks.

No flooring ensures ESD protection if the ambient relative humidity decreases below 40%. In the case of sanded concrete flooring, relative humidity changes will not impact the ESD protection level. Renovation and reparation are possible without idle times or production losses.

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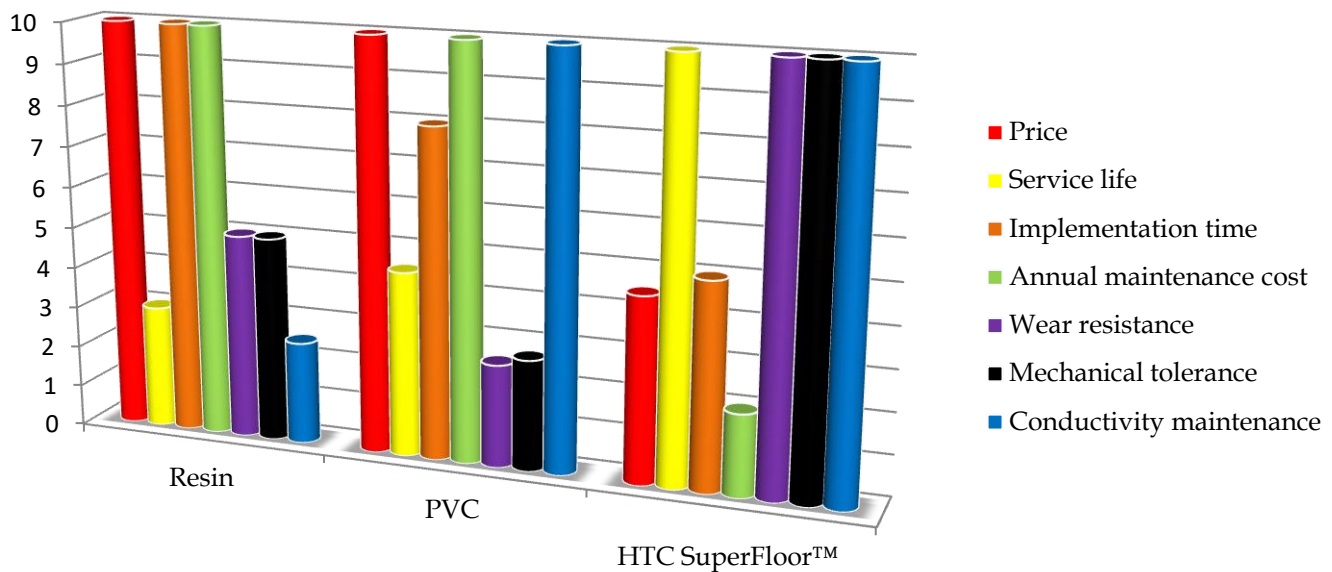
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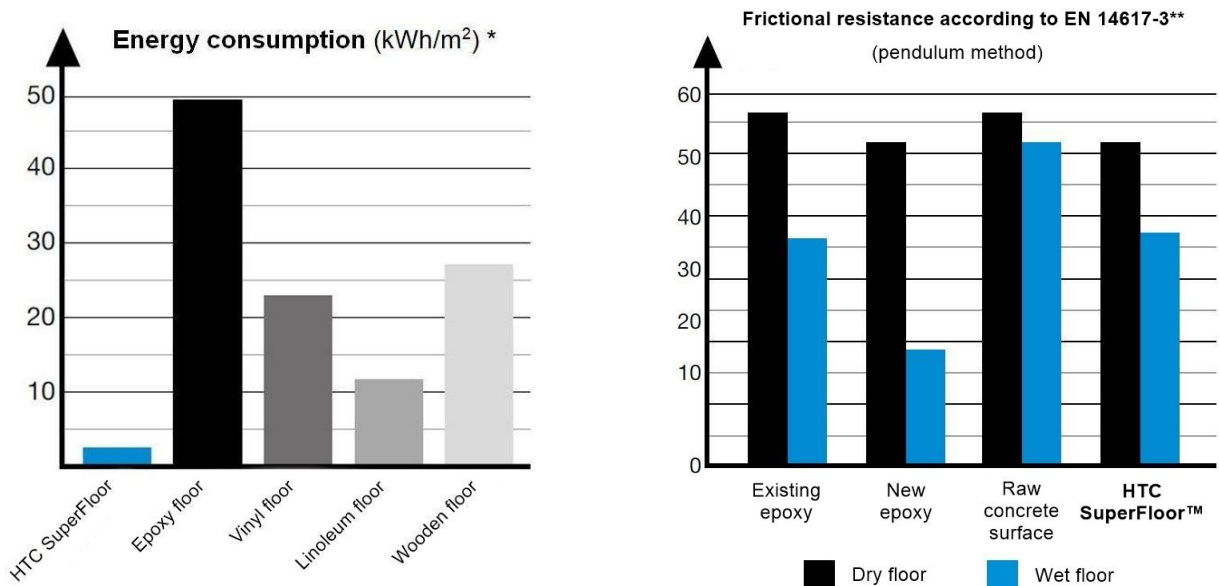
ESD standards, test methods and qualification:

- MSZ EN 61340-4-5 és MSZ EN 61340-4-1
- ANSI-ESD STM 7.1, ANSI-ESD STM 97.1 és ANSI-ESD STM 97.2
- ISO 9001, IEC 61340 és ANSI/ESD S20.20

Required resistance shall be lower than $1.0 \times 10^9 \Omega$ of resistance. For reaching this value, an appropriate, conductive flooring is absolutely necessary. Compared to other floorings, the resistance value of a sanded concrete surface is $1.2 \times 10^7 \Omega$. Thus, it is **83.3 times lower** than the that of traditionally used PVC or synthetic resin floorings.



HTC SuperFloor™ concrete sanding technology is also an advantageous solution for the renovation of existing ESD floorings in use. As after removing the existing flooring, the “raw material”, the CONCRETE is readily available.



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