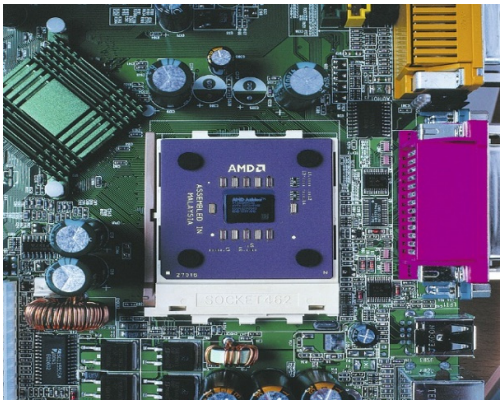
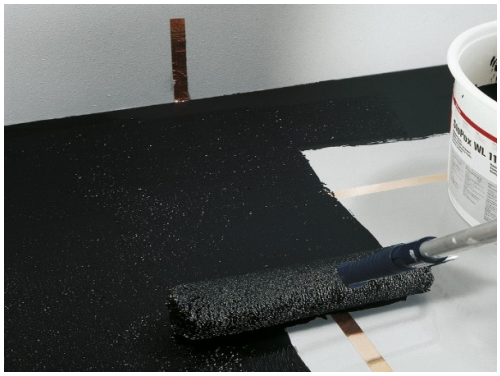
Project Report/September 2020

Protection of Electronic Components and Personal Protection through Conductive Floor Coating





Project

Conductive industrial coating

Proejct type

Industrial building, production

Applied products

ESD floor coating system:

Primer	StoPox WG 100
Levelling coat	StoPox WG 100 with StoQuarz
Conductive layer	StoDivers LB 100 with StoPox WL 118
Coating	StoPox WB 110
Sealing coat	StoPox WL 113

Investor and Planner

Robert Bosch GmbH, Ansbach, DE

Applicator

Reichelsdorfer Spezialbau GmbH, Höchstadt, DE

Realisation

04/2020

Bosch Group produces electronic control devices and mechatronic components for automotive technology at its production site in Ansbach, DE. The investor chose the StoFloor ESD WB 110 coating system from StoCretec to refurbish the approximately 3,500 square metres of flooring in its component production.

The production's floor areas had several differing substrates made of magnesia paint and old coatings. After suitable substrate preparation, the applicator primed the surfaces with StoPox WG 100.

For the subsequent levelling coat was also done with StoPox WG 100, filled with StoQuartz. The conductive intermediate layer was realised applying StoPox WL 118 . The connection to the ground was made using StoDivers LB 100 (conductive copper tape) and

StoDivers LS (conductive set). The specialist applicator then applied the water based epoxy resin coating StoPox WB 100.

The StoFloor ESD WB 110 coating system meets all requirements of DIN EN 61340-5-1 (“Protection of electronic devices from electrostatic phenomena”) as well as DIN VDE 0100-410 (“Protection against electric shock”). In addition, the floor coating system is robust, low in VOC emissions and has very good water vapour permeability (Class I).

At the investor’s request, the floor coating system was sealed with StoPox WL 113 for additional protection and easy cleaning. The EP water-based coating material meets the requirements for ESD and personal protection and thus creates the desired combination of protective measures for both sensitive products and humans.

StoPox WL 113 has other excellent properties: It has very low emissions (AgBB* tested and approved), has high abrasion resistance, is capable of water vapour diffusion and is resistant to plasticisers. StoPox WL 113 can be applied using the airless spraying process; it is odourless during processing and has good covering power.

(Exemplary photos: StoCretec, no project photos by request of investor)

*AgBB = German Committee for Health-related Building Products

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