



Conductive Systems

VIASOL **UNIVERSAL ESD**
VIASOL **UNIVERSAL voltex**

viacor.

VIASOL SYSTEMS



Conductive systems for floors providing protection for people and products

When static build up develops that poses a threat to people or sensitive products such as computer chips, the floor has to play its part in the safety system. Conductive flooring is mandatory when dealing with combustible materials in explosion-proof areas. The conductive VIASOL coating systems reliably direct electrostatic charges away from their source immediately, both horizontally and vertically.

VIASOL **UNIVERSAL voltex** and **ESD** are set precisely to the voltage windows required in each case and the loads that typically occur. Stringent monitoring during production ensures consistent product quality, which is a decisive factor in this environment.

SYSTEM BENEFITS

- **conductive / antistatic**
- **wear resistant, capable of bearing medium mechanical loads**
- **good chemical resistance (including disinfectants) and very good abrasion resistance**
- **smooth surfaces that are easy to clean or slip-resistant variations**
- **easy to decontaminate**
- **resistant to backward moisture penetration**
- **available in a wide range of colours**
- **Variants: Vapour-permeable (PERM), WHG [German Water Management Act] system**
- **also available as roller coating: VIASOL PROTECTIVE conductive**

SYSTEM INFORMATION

Four-layer epoxy resin floor coating systems

Requirements for conductive floors

- 1) Explosion protection
- 2) Protection of electrostatically sensitive components
- 3) Personal protection

Requirement / Standard	Required values / measurements	VIASOL SYSTEM
1) Explosion protection: Charges must be directed away safely and quickly Guideline BGR 132 (DIN EN 1081)	Resistance to earth $R_E \leq 10^8 \Omega$ (for explosives $R_E \leq 10^6 \Omega$)	UNIVERSAL voltex PROTECTIVE conductive
2) Protection of electrostatically sensitive components: Charges must be directed away acc. to ESD demands DIN EN 61340-5-1	Resistance to earth $R_E < 10^9 \Omega$ or floor as primary connection to earth System resistance (person/shoe/floor) $R_S \leq 3,5 \times 10^7 \Omega$ (35 M Ω)	UNIVERSAL ESD UNIVERSAL ESD
3) Personal protection: Charges must not be directed away too quickly DIN EN 61340-4 (Walking Test)	Electrostatic chargin of personnel below 100 V	UNIVERSAL ESD

See technical guideline for further details

SECTORS

Hospitals

Clean rooms

Combustible-liquid stores
Explosion-proof zones

Areas with ESD requirement
medical technology

Mobile phone production

Semiconductor manufacture

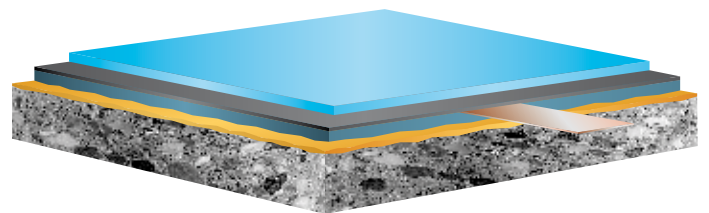
Pharmaceutical industry
Power stations



VIASOL **UNIVERSAL ESD**

Seal coat (optional)	coloured, UV- and colour-stable, conductive, mat	PU-based
ESD-Coating	coloured, self-levelling, conductive	EP-based
Conductive layer	with copper tape wall connection	EP-based
Levelling layer (where required)		EP-based
Adhesive primer		EP-based
Substrate / Concrete		

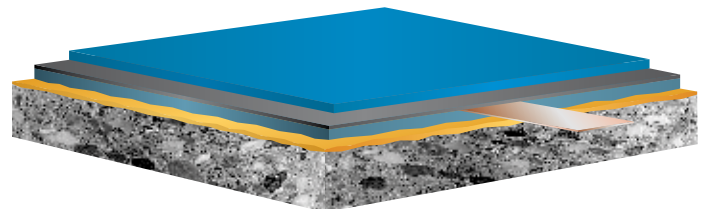
The conductive coating system for clean rooms, personal protection and all areas in which ESD requirements have to be satisfied
System thickness approx. 2 – 4 mm



VIASOL **UNIVERSAL vortex**

Coating	coloured, self-levelling, conductive	EP-based
Conductive layer	with copper tape wall connection	EP water-based
Levelling layer (where required)		EP-based
Adhesive primer		EP-based
Substrate / Concrete		

The conductive coating system for explosion-proof zones and all areas in which electrostatic charges must be avoided
System thickness approx. 2 – 4 mm



Variations in system structure and layer thicknesses possible

Layer by layer your individual floor

VIACOR **Portfolio** – the tailor-made product for every application

VIASOL **SYSTEMS** – flooring systems for industrial and public floors

VIASOL **DECK** – state-of-the-art car park flooring systems

VIASEAL **SPRAY COATS** – advanced waterproofing

VIASAN **BUILDING PROTECTION** – for high-quality concrete repair

PORPLASTIC **SPORTS FLOORS** – for outdoor and indoor use, for sports and leisure

VIACOR **Perspective** – green and sustainable

the aim of keeping our planet a good place to live for the future reigns our company

- use of polyurethane as a natural renewable raw material from the castor oil plant
- fillers and pigments from natural sources e.g. quartz sands
- concentration on water-based and solvent free products
- a sustainable investment: VIASOL floors are long-lasting and can be easily revitalized for an even longer lifetime
- we control the processes of purchase, production, the products themselves and their application to be environmentally friendly



VIACOR **Global Presence**

German Technology – products and floorings around the world

Trinidad, Hongkong, Singapore, Romania, Australia, England, Austria, India, Germany, Malaysia, Greece, Norway, Hungary, Austria, Ireland, Thailand, Latvia, Vietnam, Qatar, Russia, Croatia, Luxembourg, Slovenia, Egypt, Belarus, Switzerland, Indonesia, Mauritius, Algeria, Serbia, Finland, Chile, Turkey, Venezuela, Peru, Colombia, Saudi-Arabia, Macedonia, Brazil, USA, Canada, Hungary, Romania, Czech Republic, Hongkong

Conductive Systems



Research and development



Production



Technical and application support



Tried and tested system ...



... for each and every demand.

viacor.

VIACOR Polymer GmbH
Graf-Bentzel-Str. 78
72108 Rottenburg a. N.
Germany

Tel. + 49 07472 94999-0
Fax + 49 07472 94999-39
info@viacor.de
www.viacor.de

VIACOR ASIA SDN BHD
No.5, Jalan Sungai Terap 32/182,
Bukit Rimau Industrial Park,
40460 Shah Alam, Selangor
Malaysia
Tel. + 60 3 5131 7777
Fax + 60 3 5131 7878
info@viacor.asia
www.viacor.asia