

Introduction

An electronic module is only suitable for a specific purpose if it guarantees safe function for a defined time. A large number of modules are installed in the terminal devices without protective coatings and operate fault-free throughout their entire service life. In an increasing number of cases, the module is used with greater electrical sensitivity or even under difficult conditions. The safe function of an assembly is then only ensured by means of a protective coating.

In the German-speaking area, there is only the GfKORR guideline for the application and properties of a protective coating available. The GfKORR working group "Corrosion protection in electronics and micro engineering" produced this guideline in cooperation of designers, producers, coaters and users of electronic construction groups.

The aim of the seminar is to teach the participants about this guideline and the collected knowledge from the working group, so that a comprehensive and fundamental understanding of coatings and their possible applications for the functionality of electronic assemblies is achieved.

Target Groups

Production engineering, quality assurance, process technology, analytics, design and construction as well as all users of coated assemblies

Organisation

Registration

For organisational reasons, please send your registration to:

GfKORR - Gesellschaft für Korrosionsschutz e.V.
Theodor-Heuss-Allee 25
60486 Frankfurt / Main
Phone: +49 (0) 69 7564-360 /-436
Fax: +49 (0) 69 7564-391
E-Mail: gfkorr@dechema.de
Web: <https://gfkorr.de/Veranstaltungen>

Participation fees ^{*)}

Members of GfKORR	860,- €
Non-Members	900,- €
Students (under 30 years)	150,- €

^{*)} no VAT requested according to § 4.22 UStG

The registration fees include the guidelines for the Utilisation and Fabrication of Protective Coatings for Electronic Assemblies.

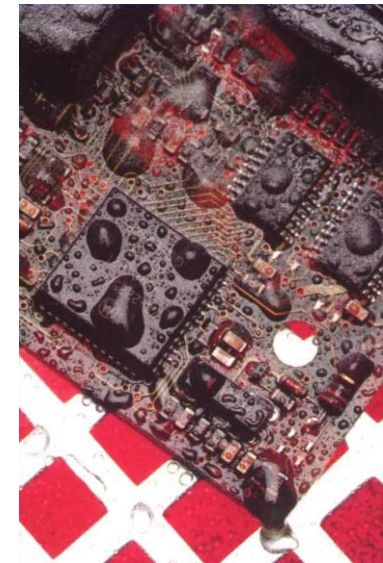
Conditions of participation

The receipt of the registration is considered as binding confirmation of the participant. Upon receipt, you will receive confirmation and an invoice for the order due. Registered participants can cancel in writing free of charge no later than 16 November 2021. After this date 80% of the participation fee will be charged. In case of absence or cancellation of participation, the full participation fee is to be paid. Furthermore, you may nominate a substitute participant.



GfKORR – Gesellschaft für Korrosionsschutz e.V.

Seminar Application and Utilisation of Protective Coatings for Electronic Assemblies



30 November - 1 December 2021
Online-Event

in cooperation with

FED
Fachverband für Design,
Leiterplatten- & Elektronikfertigung

ZESTRON
ACADEMY

Programme – 30 November 2021

- 10:00 Welcome and introduction of participants**
Dr.-Ing. Helmut Schweigart
Dr. O.K. Wack Chemie GmbH, Ingolstadt, Germany
- 10:30 Requirements of protective coatings for use on assemblies**
General requirements, requirements for environmental impact, regulations for protective coatings
Beth Turner
Electrolube, Leicestershire, United Kingdom
- 11:15 Classification of protective lacquers**
Subdivision according to the binder or solvent, subdivision according to drying or curing mechanism, subdivision according to layer thickness
Jens Bürger
ELANTAS Europe GmbH, Hamburg, Germany
- 11:40 Break**
- 13:00 Film properties of protective coatings**
Mechanical, electrical and thermal properties, condensation, water absorption and water vapour permeability, thermal resistance, flexibility (modulus of elasticity) and CTE
Beth Turner
Electrolube, Leicestershire, United Kingdom
- 14:00 Impact of the assembly on protective coatings**
Base material, assembly or printed circuit board layout, solder resist, soldering materials and parameters, drying parameters, keeping and uncovering areas
Jens Gruse
Stannol GmbH & Co. KG, Velbert, Germany
- 15:00 Break**

Programme – 30 November 2021

- 15:30 Surface and preparation prior to protective coating**
Requirements for module cleaning, decision on cleaning, minimum surface cleanliness before protective coating, measurement / analysis of ionic impurities, implementation / optimization of cleaning processes
Helmut Schweigart
Dr. O.K. Wack Chemie GmbH, Ingolstadt, Germany
- 16:30 End of first day**

Programme – 1 December 2021

- 09:00 Welcome and summary of day 1**
Dr.-Ing. Helmut Schweigart
Dr. O.K. Wack Chemie GmbH, Ingolstadt, Germany
- 09:15 Application procedures for protective coatings**
Subdivision of the application processes, application by brush, coating or spray can, application by spraying, dipping, flooding or spraying process, automatic and selective coating in casting process, application by dispensing or vacuum process
Gerd Schulze
Nordson B.V., Maastricht, Netherlands
- 10:20 Break**
- 10:55 Handling of protective lacquers**
Requirements for coating rooms and equipment, monitoring of processing parameters, contamination, maintenance of immersion systems, aging of protective coatings, environmental protection during protective coating
Jens Bürger
ELANTAS Europe GmbH, Hamburg, Germany

Programme – 1 December 2021

- 11:40 Break**
- 13:00 Prevention of typical coating defects**
Application of excessive layer thicknesses, double coating, early hermetic encapsulation of coated printed circuit boards, avoidance of defects and typical abnormalities in protective coatings
Jens H. Klingel
KC Kunststoff-Chemische Produkte GmbH, Frielzheim, Germany
- 14:00 Coating inspection methods**
General proof of the protective coating, verification of climate resistance, verification of the coating result
Gerd Schulze
Nordson B.V., Maastricht, Netherlands
- 15:00 Break**
- 15:30 Repair of coated assemblies**
Paint stripping of assemblies, sound soldering of coatings, repair coating
Jens H. Klingel
KC Kunststoff-Chemische Produkte GmbH, Frielzheim, Germany
- 16:00 Comparison of the guide to IPC-Handbook**
Dr.-Ing. Helmut Schweigart
Dr. O.K. Wack Chemie GmbH, Ingolstadt, Germany
- 16:30 Summary and end of seminar**
- Unforeseen program changes are reserved.