

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: www.gfkorr.de

Participation fees ^{*)}

The attendance fees for the seminar (9 - 10 December)	
Members of GfKORR	€ 830,--
Non-Members	€ 870,--
Students (under 35 years)	€ 150,--

The participation fees for the certificate of competence for the processing of protective coatings on 11 December are 430,-- € (participation is optional).

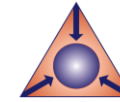
^{*)} no VAT requested according to § 4.22 UStG, registration fee may include Business Package with VAT

The registration fees include the guidelines for the Utilisation and Fabrication of Protective Coatings for Electronic Assemblies, list of participants, lunch and beverages during breaks and evening event.

An exhibition of devices, products and services in the thematic context of this event is possible on request.

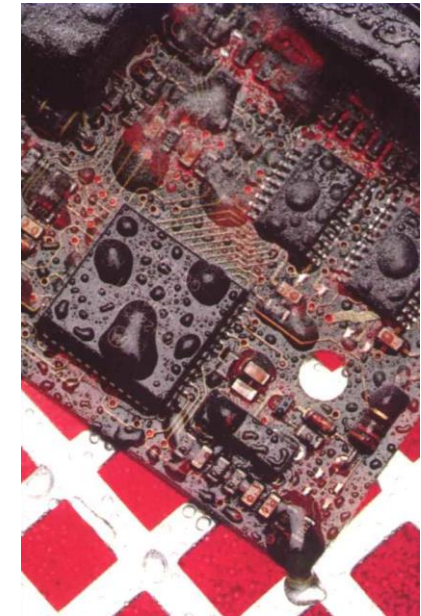
Conditions of participation

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 27 November 2020. 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



**9 - 10 December 2020, Seminar
11 December 2020, Certificate of Competence
for the Processing of Protective Coatings**

**ZESTRON INGOLSTADT
Bunsenstr. 6, 85053 Ingolstadt**

**ZESTRON
ACADEMY**

Programme – 9 December 2020

- 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 Lunch**
- 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 Coffee Break**
- 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**
- 18.30 City Tour**
- 19.30 Dinner in a Bavarian local restaurant**

Programme – 10 December 2020

- 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 Coffee 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
- 11.40 Lunch**
- 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, Friesland, 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 Coffee 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, Friesland, 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**

Programme – 11 December 2020

- 09.00 Intensive training for the certificate of competence for the processing of protective coatings for electronic assemblies**
Dr.-Ing. Helmut Schweigart
Dr. O.K. Wack Chemie GmbH, Ingolstadt, Germany
- 12.00 Lunch**
- 13.00 Theoretical examination**
Dr. Roman Bender
DECHEMA e.V., Frankfurt, Germany
- 14.00 Coffee Break / Assessment**
Dr. Roman Bender
DECHEMA e.V., Frankfurt, Germany
- 14.30 Results**
Handing over of certificates for proof of expertise
- 15.00 End of the event**

Unforeseen program changes are reserved

Please send registration to:

E-Mail: gfkorr@dechema.de, Fax: +49 - (0) 69 - 7564 391

GfKORR – Gesellschaft für Korrosionsschutz e.V.
Theodor-Heuss-Allee 25
60486 Frankfurt / Main

Registration for

- **Seminar: Application and Utilisation of Protective Coatings for Electronic Assemblies, 9 - 10 December 2020**
- **Certificate of Competence for the Processing of Protective Coatings, 11 December 2020**

ZESTRON INGOLSTADT, Bunsenstr. 6, 85053 Ingolstadt

Title / First Name / Surname:

Company:

Street:

Postcode, City:

Phone:

E-Mail:

Datum:

(please mark)

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|-----------------------------|---------|
| - GfKORR Members | € 830,- |
| - Non-Members | € 870,- |
| - Students (under 35 years) | € 150,- |

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- | | |
|--|---------|
| - Certificate of competence for the processing of protective coatings on 11 December (participation is optional) | € 430,- |
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I have been informed about the privacy policy for the usage of this service. I have also been informed on my right to object to the use of my data at any time.
(for full details click the link: <http://www.gfkorr.de/datenschutz.html>).