

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 gfkorr – Gesellschaft für Korrosionsschutz e.V. (German Society for Corrosion Protection) is an interdisciplinary association of experts from industry and R&D, aiming at reducing corrosion and consequential damages in all areas of life and technology.

SMTA is an international association for electronics engineering and manufacturing professionals seeking to improve processes through best practices and real-world solutions. SMTA offers exclusive access to local, regional, domestic and global communities of experts, as well as accumulated research and training materials from thousands of companies dedicated to advancing the electronics industry.

The greatest benefits come from the SMTA's mission of the sharing of knowledge and best processes by bringing educational content and a global network to local regions.

The aim of the seminar, which is divided into three independently bookable training days, 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.

Introduction - Organisation

Target groups

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

Registration

For organisational reasons, please send your registration by **3 March 2026** by using the following link:

[Registration](#)

gfkorr - Gesellschaft für Korrosionsschutz e.V.
Theodor-Heuss-Allee 25
60486 Frankfurt / Main
E-mail: gfkorr@dechema.de
Web: <https://gfkorr.de/Veranstaltungen>

Participation fees^{*)} per booked training day^{**)}

Members of gfkorr	500,- €
Non-Members	540,- €
Students (under 30 years)	90,- €

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

^{**)} For bookings of 2 or more training days, we offer a 20% discount!

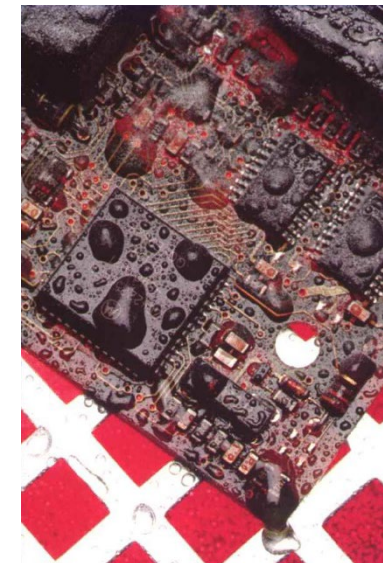
The registration fees include the guidelines for the *Utilisation and Fabrication of Protective Coatings for Electronic Assemblies*.

Conditions of participation

Following receipt of the registration a confirmation and the invoice on the amount due will be sent to the course participant. Registered participants can cancel in writing free of charge no later than **3 March 2026**. 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. A replacement of a participant is always possible.



Seminar Application and Utilisation of Protective Coatings for Electronic Assemblies



17.03.2026

Selection of the coating process

18.03.2026

Practice of the coating process

19.03.2026

Quality assurance during the coating process

Online Event

in cooperation with



17.03.2026 – Day 1

Selection of the coating process

- 10:00 Welcome, introduction of participants and your specific focus**
Dr. Mirco Eckardt
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
Damian Robertson
MacDermid Alpha, Langenfeld
- 11:20 Discussion**
- 11:30 Summary specific focus of participants**
- 11:40 Break**
- 12:40 Classification of protective lacquers**
Subdivision according to the binder or solvent, subdivision according to drying or curing mechanism, subdivision according to layer thickness
Johannes Tekath
Lackwerke Peters GmbH & Co. KG, Kempen
- 13:10 Discussion**
- 13:20 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, sources of information
Damian Robertson
MacDermid Alpha, Langenfeld
- 14:20 Discussion**
- 14:30 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, qualification of components
Martin Metzler
MacDermid Alpha, Langenfeld
- 15:30 Discussion**
- 15:40 Summary & final discussion**
- 16:00 End of the first day**

18.03.2026 – Day 2

Practice of the coating process

- 09:00 Welcome, introduction of participants and your specific focus**
Dr. Mirco Eckardt
Dr. O.K. Wack Chemie GmbH, Ingolstadt, Germany
- 09:30 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, contactless jet process, application by dispensing or vacuum process, 2K coating systems
Almar Thewissen
Nordson B.V., Maastricht, Netherlands
- 10:30 Discussion**
- 10:40 Break**
- 11:00 Surface and preparation prior to protective coating**
Requirements for module cleaning, decision on cleaning and requirements, minimum surface cleanliness before protective coating, measurement / analysis of ionic impurities, implementation / optimization of cleaning processes
Dr. Mirco Eckardt
Dr. O.K. Wack Chemie GmbH, Ingolstadt, Germany
- 11:40 Discussion**
- 11:50 Break**
- 13:00 Summary specific focus of participants**
- 13:20 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
Dr. Mine Memesa-Yaman
Dow Corning GmbH
- 14:10 Discussion**
- 14:20 Summary & final discussion**
- 15:00 End of the second day**

19.03.2026 – Day 3

Quality assurance during the coating process

- 09:00 Welcome, introduction of participants and your specific focus**
Dr. Mirco Eckardt
Dr. O.K. Wack Chemie GmbH, Ingolstadt, Germany
- 09:30 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
- 10:45 Discussion**
- 10:55 Coating inspection methods**
General proof of the protective coating, verification of climate resistance, verification of the coating result, testing the drying of the protective coating
Joanna Procelewska
Schaeffler Technologies AG & Co. KG, Herzogenaurach
- 11:40 Discussion**
- 11:50 Break**
- 12:50 Repair of coated assemblies**
Paint stripping of assemblies, sound soldering of coatings, repair coating
Jens H. Klingel
KC Kunststoff-Chemische Produkte GmbH, Frielzheim, Germany
- 13:20 Discussion**
- 13:30 Summary specific focus of participants**
- 13:50 Final discussion**
- 14:15 End of the seminar**

Unforeseen programme changes are reserved.

Host: gfkorr e.V.
In cooperation with the Zestron Academy
(<https://www.zestron.com/en/academy>) and SMTA
(<https://smta.org/>)