# WORKSHOP

## FLOAT GLASS PROCESSING: WASHING AND ANTI-CORROSION TREATMENT

### SUMMARY

Float glass is produced all over the world. Storage and transport conditions depend on the local conditions and influence the corrosion state of the glass. On the other hand, the glass surface more and more becomes the substrate of high sophisticated functional coatings. As a consequence, a perfect glass surface is decisive because even smallest corrosion defects can spoil the end product. Different chemical / physical methods will be reported which characterize the state of glass surfaces freshly produced and after storage. A discussion will follow regarding the minimum needs of further processing of glass. Furthermore, test methods to simulate glass aging will be on focus.
Dr. Emonds will give basic information regarding the chemistry of (glass) washing compounds. The technical needs for an optimal washing machine will be described as well as the proper maintenance of the washing circuit.
Different concepts of corrosion protection are discussed. Special attention will be paid to anti-corrosion interleaving powders and to liquid anti-corrosion products. The positive influence of anti-corrosion products on low-e coating will be demonstrated.
A major problem in corrosion protection is the proper application of anti-corrosion products. Mr. Senft will talk about different application possibilities and their advantages/disadvantages.

### KEY POINTS

- Glass surface, glass corrosion, glass alteration, glass corrosion protection
- Glass storage, glass transport, glass surface characterization, glass corrosion tests
- Glass washing, glass interleavants, anti-corrosion liquids, powder/liquid applicators

### TIMETABLE 26TH OF JUNE

9:00 Welcome to workshop, introduction of the participants

15:00 End of the workshop

Duration: 6 hours

## ORGANISERS

### MICHAEL EMONDS, BASF/CHEMETALL

Dr. Michael Emonds studied chemistry at RWTH – Aachen. He made his PhD in (bio)polymer chemistry and taught students at the university before he changed into industry. Since 1993, he is active in glass industry and worked for Aachener Chemische Werke - now Chemetall/ BASF - as R/D scientist. He is also responsible for applications engineering consulting in the areas of cutting fluids, coolants, detergents and interleavants/corrosion inhibitors and olds seminars and training.

### REINHOLD SENFT, GRAFOTEC SPRAY SYTEMS GMBH/AUGSBURG

Reinhold Senft is the managing director of Grafotec Spray Systems GmbH/Augsburg. He has more than 25 years of experience in the glass industry. His professional specialty is to design machinery used in the flat and bending process for applying dry and wet inter-leaving powder as well as liquid application machines to apply solutions (anti-stain liquid) or suspensions (liquid interleaving for gravity bending). All major glass producers world-wide and many of the smaller professionals are using machinery from Grafotec to improve their production efficiency.