

PAINTING METAL newsletter

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Strengthening the product range

We are in the process of harmonising our comprehensive range of industrial products, developed to meet the strictest standards. The aim of this harmonisation is to strengthen our product range and to enable us to serve our customers even better.

The changes will make the management of the product range of metal coatings available to our retail partners easier. The harmonisation is also aimed at ensuring continued security of supply and rapid delivery of our products, which benefits the end users in particular.

For decades, Teknos has been a pioneer in product development. We want to continue to share our expertise with our customers in the future. Streamlining our product range is part of our continuous product development process.

 **Lassi Tirkkonen**
Group Senior Vice President, Metal Paints and Coatings





Active cooperation

Solid results

Abloy and Teknos have proved that, by combining their efforts, two Finnish companies can achieve world-class results.

Abloy Oy is one of the leading manufacturers of locks, lock systems and architectural hardware, providing its customers with safe and easy-to-use solutions for opening and closing doors. As with Teknos, the Abloy brand has earned the trust of its customers through long-term development work and the provision of innovative products and professional, customer-oriented services.

Antimicrobial materials and finishes

In a way, customer orientation was the factor that acted as a natural trigger for cooperation between these two companies. Abloy was looking to develop antimicrobial

products for applications where high levels of hygiene are required. Hospitals, sheltered housing and other similar buildings are environments where bacteria typically emerge and spread at a rapid pace. Door handles and fittings, for example, are surfaces that many people come into contact with on a daily basis. This makes them an important breeding ground for and transmitter of bacteria and viruses.

To tackle this challenge, Abloy began the development of latchsets made from antimicrobial materials. But the result was not perfect yet. What it needed was a surface

treatment material with a matching resistance to mechanical wear, ease of cleaning and, above all, the antimicrobial properties of Abloy's high-quality products. Various alternatives were thoroughly investigated. Finally, the sense of being able to achieve the goal came with the discovery of INFRALIT antimicrobial powder coatings by Abloy's representatives at Teknos' fair stand.

Market leader in effectiveness

Antimicrobial INFRALIT is a powder coating developed by Teknos and a market leader in effectiveness. It is an ideal coating solution wherever the highest possible hygiene



standards are required. The innovativeness of both Teknos and Abloy is based on long-term research and development; an aspect of cooperation both companies wanted to ensure was viable. This meant conducting a wide range of tests, during which the coating's suitability to Abloy's application needs was assessed from all sides.

Excellent resistance to wear and corrosion

Powder coatings proved to be superior in every respect to any competing solution. In addition to antimicrobial properties, they have excellent resistance to wear and corrosion. Wherever surfaces are exposed to very heavy use, it simply does not pay to settle for the next best thing.

Teknos antimicrobial powder coatings are cured at raised temperatures so as to make the finish fully sealed and resistant to mechanical wear. When the high quality

of Abloy's latchsets is combined with the market-leading properties of Teknos' powder coatings, the outcome is superior corrosion-resistance. The finish survives even the harshest of corrosion tests, and achieves the highest possible corrosion resistance class. It is safe to say that this cooperation has led to true innovation and added value on the part of both these companies.

Abloy ACTIVE

As the result of the cooperation, Abloy ACTIVE was created – a unique and completely antimicrobial range of door fittings, whose initial primary environments for use were hospitals, health care centres and care facilities.

Abloy ACTIVE is also well-suited for treating surfaces that require effective corrosion protection in demanding environments, such as ocean liners and spas. The product range has sold well from the beginning, and the

scope of demand was wider than expected. Abloy saw a new opportunity, and added the ACTIVE as a standard feature on all painted door fittings. This also makes Abloy ACTIVE more suited for other environments, such as schools, daycare centres, offices and homes.

Even an industry leader can enhance the value of its products through the active distribution of information and open discussion with partners who share the same values and principles. When the cooperation started, not all the possibilities were probably fully understood, but now, creative thinking and determined research have made their full exploitation a reality.

Abloy ACTIVE is an excellent example of how a cooperation-based way of thinking and operating can open the doors to new and significant opportunities in today's business.

Anti-corrosion and surface treatment industry associations to combine forces

Members of anti-corrosion and surface treatment industry associations, representing the metal structure sector on a broad basis, have each worked for decades to further the development of the industry. Associations active in Finland have decided to launch cooperation in order to distribute all relevant information and competence throughout the industry.

The associations will continue operating as separate entities, but collaboration will allow better use to be made of their limited resources.

Excellent opportunities for cooperation exist, for example in the organisation of training events, distribution of publications, development of the association websites and participation in various events.

– This joint meeting for the organisations is

already the best thing that has happened for years in Finland's surface treatment industry, says Hannu Tarvainen, member of the Finnish Technical Product Painting Organisation SUMMA, bringing in feedback from the field.

– Finland's surface treatment and anti-corrosion industry does not have large-scale resources to provide training and develop the competence of designers, construction supervisors and contractors within in the

industry. The cooperation launched between the Surface Treatment Group of the Finnish Constructional Steelwork Association FCSA, SUMMA, the Finnish Corrosion Society SKY, and SKU, is a huge step in the right direction. Cooperation enables us to provide better support for the development of the industry and to exploit expertise more broadly, says Risto Sipilä, Chairman of the Surface Treatment Group of the Finnish Constructional Steelwork Association FCSA.

Representatives of Finnish anti-corrosion and surface treatment industry associations in a cooperation meeting in February 2014, from left to right: Jouko Kouhi/FCSA, Matti Heiniluoma/SKU (Corro-Kolmio Oy), Risto Sipilä/Chairman of the Surface Treatment Group of the FCSA (Ruukki Construction Oy), Kari Sandberg/Surface Treatment Group of the FCSA (Teknos Oy), Juhani Ylitalo/Deputy Chairman of the Surface Treatment Group of the FCSA (Aurajoki Oy), Hannu Tarvainen/SUMMA (Ponsse Oy), Jan Sjöberg/SKY (Teknos Oy), Veikko Numminen/Secretary to the Surface Treatment Group of the FCSA



Photo: Tommi Ahlberg, Rakennusteollisuus RT

– In my opinion, collaboration between professionals ensures future continuity of high-quality surface treatment and anti-corrosion work, and offers an excellent way of keeping up to date with the latest development in this sector, says **Matti Heiniluoma** of SKU.

Teknos actively involved

Only international standards apply within the industry in Finland. Teknos is actively involved in Finland's metal painting industry associations, and participates in and monitors international standardising work in an equally active manner.

– Monitoring helps us ensure that all products we offer in the field including product use is up to date, and our customers have access to the latest information in the sector, says Teknos' Research Manager **Jan Sjöberg**, active in the Finnish Corrosion Society SKY.

In the opinion of Teknos' Sales Director Kari Sandberg, active in FCSA, the fact that the associations combine forces indicates a very positive trend.

– Even though there is less activity in associations these days, the metal structure industry associations will form an umbrella organisation for pooling all information in one place. Collaboration is crucial, in enhancing the industry's competitiveness for instance, says Sandberg.

 **Merja Jakobsson**
Publicist, Metal Paints & Coatings

Anti-corrosion and surface treatment associations active in Finland:

- Surface Treatment Group of the Finnish Constructional Steelwork Association FCSA
- The Finnish Corrosion Society SKY
- Finnish Technical Product Painting Organisation SUMMA
- Suomen Korroosiourakoitsijat SKU (Corrosion contractors in Finland)
- The Federation of Finnish Technology Industries' Surface Treatment Branch Group



“Only international standards apply within the industry in Finland”



The theme
Fire Protection

PINTA 2014 FAIR

brings the professionals of the surface treatment and corrosion prevention together 6-8 May,
Messukeskus Helsinki Expo and Convention Centre

Visit our stand 6k99!

For further information:
<http://www.expomark.fi/w/en/fairs/pinta-2014/>



Come and try your hand at **virtual spray painting** at our Expo stand

Using the correct application method in surface treatment is crucial for the quality of the product. Traditional training methods are often costly due to the need for equipment, materials and a suitable working environment. A virtual training system is an excellent alternative to conventional training methods.



The Teknos stands at the Pinta 2014 Fair and at the PaintExpo provide an opportunity to try virtual spray painting with SIMSPRAY, a virtual reality training system developed in the US for use as an industrial training tool. It is marketed in Europe by the French company Mimbus.

The SIMSPRAY virtual training system has a 3D helmet, which transports the trainee into a virtual spray painting chamber. The trainee works with a real spray painting tool. The movements of the paint sprayer are very realistic, and the resulting paint film is reproduced in detail on the finished piece. The range of work pieces, colours, conditions and spraying equipment is extensive.

Spray finishes are analysed

The system enables a highly accurate analysis of spray finishes. The work pieces can be examined and zoomed in on from any angle. It detects errors such as sagging, orange peeling, or paint films that are too thin or too thick. The graphics reproduce the movement of the sprayer in great detail, enabling the analysis of any errors. To ensure the success of the training, the spraying process can be repeated several times and documented using the reporting feature.

A virtual reality training system offers clear advantages, because it is cost-efficient and easy to use. There are also no limits as to where the training can be organised. SIMSPRAY virtual spraying systems are sold and leased by Mimbus.

At the PINTA 2014 Fair and at the PaintExpo, visitors to the Teknos stand will have an opportunity to test the SIMSPRAY.

Welcome to visit our stand!

PaintExpo Karlsruhe, 8-11 April, 2014
Hall 1, Stand 1520

PINTA 2014 Helsinki, 6-8 May, 2014
Stand 6k99

Sources of further information on the SIMSPRAY:

www.mimbus.com
www.simspray.fr



Olga Orlova, manager of the General Industry department.



Sergey Krutko, manager of the Powder Coatings department.

Teknos at Oil and Gas Conference in Suzdal

Teknos participated in the 10th International Scientific and Technical Conference, "Application of protective coatings on the equipment and constructions in oil and gas branch", which took place on 18-20 March 2014, in Suzdal.

More than 130 specialists took part in the conference: the producers of protective

coatings and end users of anti-corrosive materials.

One of the speakers at the conference was **Sergey Krutko**, manager of the Powder Coatings department at Teknos Russia. His presentation was about Teknos' complex solutions in the protection of pipelines, using anti-corrosive epoxy coatings such as

low solvent content TEKNOPOX 3296-06, almost solvent free TEKNOPOX 3297, INERTA 160 and INERTA 200, and solvent free epoxy powder coatings INFRALIT EP 8054, INFRALIT EP 8064, INFRALIT EP 8074, INFRALIT EP 8024-06, and INFRALIT EP 8024-10.

 **Alexey Panov**
Teknos Russia

