

Press release 1 – November 2012

**Growth for 5th Leading International Trade Fair for Industrial Coating Technology from 8 through 11 April 2014 in Karlsruhe (Germany)
In Great Demand: Booth Floor space at PaintExpo 2014**

Oberboihingen – 18 months before the next PaintExpo, more than 160 exhibitors from 14 countries have already made firm bookings for their booth locations. With more than 62,000 square feet, occupied floor space already amounts to more than 50% of all floor space utilised at the event in 2012. This great demand so far in advance on the part of companies from Europe, America and Asia confirms the significance attributed to PaintExpo as a global presentation and procurement platform by suppliers from all areas of industrial coating technology.

PaintExpo's recipe for success is its exclusive focus on industrial coating technology. The offerings presented by the leading international trade fair within this field are more comprehensive and market-oriented than anywhere else in the world – ranging from pre-treatment to final inspection. As a result, it's the number one information and procurement platform for users around the globe. Consequently, more than 8000 expert visitors from 63 countries travelled to Karlsruhe to attend the event in 2012. Most of them brought concrete tasks and projects along with them. "PaintExpo has evolved into an international trade fair focal-point for us. We're represented here by all of our foreign subsidiaries and we've fielded lots of qualified RFQs from Eastern Europe, the Benelux countries and Asia. We'll definitely exhibit at PaintExpo again in 2014", says Rüdiger Strunz, authorized signatory for sales and marketing at CWS Powder Coatings GmbH. This is one of the 160 companies who have already made firm bookings for the leading international trade fair in 2014, and are thus enjoying a full range of options with regard to booth location. Turkish paint manufacturer Pulver Kimya took advantage of this opportunity as well: "We'll be exhibiting at PaintExpo for the third time in 2014. We picked up lots of new customers at the first two events we participated at. We wanted to book our booth floor space early for the trade fair in 2014, in order to secure an ideal location", explains marketing manager Davit Banana with regard to the early decision. This was a decisive reason for Anuj Gupta too, managing director of Rapid Coat Powder Coatings in India: "When we first participated in

2012, we were surprised at the large number of expert visitors and the broad range of industry sectors they represented. We also discovered that PaintExpo is a worldwide trade fair at which top manufacturers of powdered enamels present their products – and it's important for us to be part of this platform." The exhibitor list is filled with renowned companies – not only in the field of paint manufacturing, but rather in all of the other exhibition segments as well, for example equipment manufacturing and application technology. Here as well, practically all of the market and technology leaders have already decided in favour of participating: "In the field of coating, PaintExpo is one of our most important trade fairs, and by registering early we can secure various advantages such as our preferred booth location", explains Claudia Haimerl, director of marketing at the Sturm group.

Representative, Forward-Looking Offerings

"Regardless of where products need to be painted, users around the world are generally placing ever higher demands on finished goods. In addition to rising quality expectations, these also include optimised material and resource efficiency, as well as flexibility. As a rule, these demands can only be fulfilled through the use of technical innovations, and these are exhibited by suppliers of industrial painting technology at PaintExpo", reports Jürgen Haussmann, managing director of event promoters FairFair GmbH. And these innovations cover the entire process sequence for liquid painting, powder coating and coil coating. The exhibition programme encompasses coating equipment, application systems and spray guns, liquid paints and powdered enamels, automation and conveyor technology, cleaning and pre-treatment, drying and curing, environmental technology, pneumatics, compressed air supply and exhaust purification, water treatment, recycling and disposal, accessories, measuring and test technology, quality assurance, paint stripping, job-shop coating, services and technical literature. Beyond this, downstream process steps such as printing and packaging are covered as well.

Further information and a preliminary exhibitor list can be accessed at www.paintexpo.de.

Thank you in advance for sending us a specimen copy or a link to your publication.

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Press Release 2 – February 2013

5th leading international trade fair for industrial coating technology in Karlsruhe (Germany) from 8th till 11th April 2014

Focus on flexibility and energy and material efficiency

Oberboihingen – Contract coaters and in-house coating companies are kept busy around the globe as they strive to make coating processes more efficient. At the same time, there is also a demand for systems to be more flexible. With over 250 exhibitors already on the exhibitor list 14 months before the trade fair is due to start, PaintExpo will be presenting solutions to these tasks. The spectrum ranges from pre-treatment through application systems, plants and coatings right up to quality control, labeling and packaging.

A coating process is considered to be efficient when defined surface qualities and high productivity are achieved using minimum quantities of materials and energy, irrespective of the material to be coated and the branch of industry concerned. In order to become more competitive, contract coaters and in-house coating companies alike are focusing on improving both efficiency and quality, as well as on increasing productivity, flexibility and environmental compatibility at the same time. Ways of achieving this can be found along the entire process chain.

More efficient painting and powder coating processes

This already starts in the pre-treatment stage. As a result, because they have lower operating temperatures, energy can already be saved by implementing the increasingly used nano-based pre-treatment systems for metal substrates. The systems also have environmental advantages. To clean and pre-treat plastic components, alternative techniques such as CO₂ snow-jet cleaning, plasma and steam-cleaning processes are being used more and more often to replace cost-intensive, space-consuming and energy-intensive power wash systems with downstream residual water dryers.

When it comes to plant engineering, the general motto is often “no more than is necessary”. In consequence, people search for cost-effective solutions which don’t compromise on quality. In contrast: high coating quality is a demand which has top priority among coating companies

throughout the world. At the same time, contract coaters especially, as well as companies with a broad spectrum of coating products, expect high levels of flexibility. On the one hand, smaller and smaller lot sizes, shorter product lifecycles and an increasing variety of colors play an important role. On the other hand, demands to be able to expand the facility as required and to depict different processes are core issues. Users are quite prepared to invest in energy-saving equipment, provided added costs are amortized within the space of about two years. New developments in drying technologies and conveying systems also contribute towards improved energy efficiency; the compact construction of the latter enables small openings to be made to the various treatment stations, thus reducing losses due to conditioned air and heat.

In the field of wet-coating, development trends both for metal and plastic substrates are still moving towards coating systems which allow the number of coating steps to be reduced through so-called integrated processes. Originating in the automotive industry, this development replaces the traditional three-layer system of primer, base and varnish with a primer or primerless two-layer coating. Unceasing efforts also continue to be made to replace solvent-based coatings with water-based systems.

With powder coatings, there is a trend towards thinner layers in order to improve material and energy efficiency. Coating systems which crosslink at lower curing temperatures are also still a priority.

It can already be foreseen that in-house coating companies and contract coaters will find the solutions they are looking for at the next PaintExpo, which will be held at the fairground in Karlsruhe from 8th till 11th April 2014. Already by the middle of February this year, over 250 companies from 16 countries had confirmed their bookings for booths at the leading international trade fair for industrial coating technology – among them almost all of the market and technology leaders. The exhibitors come from the fields of plant engineering and application technology, coatings, drying and crosslinking systems, conveying technology, automated solutions and coating robots, pre-treatment, testing and measuring technologies, quality control, environmental and filtration technologies, accessories, consumables, services, paint stripping, printing and packaging – right the way along the process chains of wet coating, powder coating and coil coating.

You can find further information as well as a provisional list of exhibitors under www.paintexpo.de

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Thanking you in advance for sending a copy of or link to all publications related to this communication.

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Press release 3 – August 2013

**5th Leading International Trade Fair for Industrial Coating Technology
from 8 through 11 April 2014 in Karlsruhe (Germany)
Continuing Expansion for PaintExpo**

Oberboihingen – More than seven months before the trade fair opens, the exhibitor list for PaintExpo 2014 already includes roughly 330 companies (status on 15 August 2013). With more than 112,000 square feet, overall net exhibition floor space has already exceeded the level achieved at the 2012 event. And the leading international trade fair for industrial coating technology from 8 to 11 April 2014 will undoubtedly experience additional growth due to further, foreseeable exhibitor bookings.

Thanks to its clear-cut focus on industrial coating technology, PaintExpo makes it possible for exhibiting companies from the industry to approach expert visitors in a more targeted fashion than at any other trade fair in the world. And this is certainly the reason why roughly 330 companies (status on 15 August 2013) have **already** decided to participate at the leading international trade fair at the Karlsruhe Exhibition Centre from 8 to 11 April 2014 seven months before the event opens. At the moment, exhibitors from 19 countries have booked floor space and 22% come from countries other than Germany. Nearly all international market and technology leaders in the fields of liquid painting, powder coating and coil coating are included in the exhibitor list. A further indicator of continuing growth for PaintExpo is already occupied net floor space, which now amounts to more than 112,000 square feet and has already exceeded levels reached at the event in 2012. “However, we’re not just pleased with the facts and figures, we’re excited about the trade fair presentations and product demonstrations announced by the exhibitors as well. These will make the upcoming PaintExpo even more interesting and attractive for expert visitors from all over the world”, reports Jürgen Haußmann, managing director of event promoter FairFair GmbH. After all, coating job-shops and companies with in-house painting operations around the globe are faced with the challenge of meeting more and more demanding quality requirements with more efficient use of materials and resources, greater flexibility and improved environmental compatibility – regardless of the industrial environment in

which they paint or coat metals, plastics, glass, wood, wooden materials or other surfaces.

Solutions Ranging from Pre-Treatment right on up to Final Inspection

Exhibitors from all sectors are offering new products and services, as well as further developments targeted at optimising processes. Where the pre-treatment of metals is concerned, for example, the trend towards so-called nano-ceramic systems is gaining momentum. These multi-metal compatible alternatives to conventional iron and zinc phosphating offer economic, ecological and process engineering advantages. The resulting corrosion protection is comparable to that provided by zinc phosphating, or may even surpass it. Furthermore, the products are free of heavy metals, which significantly reduces the costs required for wastewater treatment and disposal, as well as system cleaning and maintenance. In the meantime, products based on renewable raw materials have also been developed for the pre-treatment of components made of steel, iron and aluminium.

Ever smaller lot quantities and a continuously increasing variety of colour tones also represent significant challenges for operators of painting and coating systems. System concepts and optimisation solutions which are laid out consistently for flexibility and efficient use of materials are making a significant contribution to streamlined operation, and thus a sharp competitive edge, for companies with in-house painting facilities.

In the field of powder coating, low-temperature powdered enamel systems allow for energy savings, on the one hand because curing takes place at a lower temperature. On the other hand, if curing takes place at the “normal” temperature, efficiency is improved by increasing throughput. Innovative controllers and systems for effective powder conveyance and application also contribute to improved quality and efficiency, as well as reduced energy consumption.

PaintExpo’s exhibition programme covers coating equipment, application systems and spray guns, liquid paints and powdered enamels, automation and conveyor technology, cleaning and pre-treatment, drying and curing, environmental technology, pneumatics, compressed air supply and exhaust purification, water treatment, recycling and disposal, accessories, measuring and test technology, quality assurance, paint stripping, job-shop coating, services and technical literature as well as identification, printing and packaging.

Further information and a preliminary exhibitor list can be accessed at www.paintexpo.de.

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PaintExpo press release 4 – December 2013

**5th Leading International Trade Fair for Industrial Coating
Technology from 8 through 11 April 2014 in Karlsruhe (Germany)
PaintExpo – Answers for Demanding Coating
Requirements**

Ever greater demands are being placed on surfaces, and thus on coating technologies as well. On the one hand, efficient use of resources, individuality and environmental compatibility are decisive in this respect. On the other hand, new ranges of applications, quality and flexibility play a significant role as well. With numerous new and further developments, the exhibitors at the 5th PaintExpo will provide answers on how these challenges can be met. The leading international trade fair with roughly 430 exhibitors will take place at the exhibition centre in Karlsruhe from the 8th through the 11th of April, 2014.

Whether motor vehicles, consumer goods, machinery and equipment, communications, electronics, architecture, medical technology or energy are concerned – there's hardly an industry sector in which coating technology is not ever-present. A great variety of functional and decorative requirements need to be fulfilled for various surfaces. And it's always important to apply coatings or paint using as little material and as few resources as possible, as ecologically as possible, and with the best possible quality – regardless of the base material.

Trends in Efficient Coating

The exhibitors at PaintExpo offer new solutions and further developments to this end, throughout the entire process sequence for liquid painting, powder coating and coil coating. For instance, where the pre-treatment of metallic substrates is concerned, iron phosphating which becomes effective at temperatures of as low as 30 to 35° C, instead of 40 to 60° C, as well as nano-ceramic systems, are becoming more and more prevalent. In the meantime, products based on renewable raw materials are also available for the pre-treatment and cleaning of components made of steel, iron and aluminium. Alternative

processes such as snow blasting and plasma cleaning are also on the advance for the pre-treatment of plastic parts.

Paints with Optimised Function

In the field of painting, there's a trend towards systems which fulfil decorative as well as functional requirements. For solvent-based paints and clear coats used on metals, plastics and wood, additives are available which provide the paint with, amongst other things, antimicrobial characteristics. These are based on organometallic substances which have an ionising effect. These substances are also being used in newly developed powdered enamels with antimicrobial effect. For components used in, for example, construction and farm machinery, as well as in outdoor applications, requirements have become stricter for corrosion protection and resistance to UV radiation and weathering. These requirements can be fulfilled effectively and ecologically with an epoxy-based primer powder which is free of zinc and heavy metals. It fulfils corrosion protection requirements up to C5-I lang, and can be painted over with powder coatings as well as liquid paints. The corrosion protection primer is offered as a solution which is ideally matched to the substrate to be coated (ferrous metals, substrates with sharp edges, castings). Another newly developed 2-layer powder coating solution for highly effective corrosion protection allows for coating without energy-intensive, intermediate cross-linking. Primer and top coat are applied to the component using a powder-on-powder process based on tribotechnology, and both layers are subsequently cross-linked in a single step.

UV Technology On the Advance

The significance of UV technology continues to grow for plastic as well as metal parts, because more and more complex workpieces can be coated with the help of this method. UV curing takes place in an inert gas atmosphere, for which CO₂ or nitrogen is used to reduce oxygen content. This prevents the radicals which are required for the polymerisation process from reacting with oxygen in the atmosphere, thus ruling out the possibility of a co-called oxygen inhibition. Curing can

thus take place at larger intervals, and areas which are subjected to significantly less UV radiation are better cured as well. In addition to gas discharge tubes, LED radiators are also used for curing UV paints in the meantime.

Nitrogen Instead of Compressed Air

In the interest of material efficiency for the application of solvent, water-based and high-solid paints, alternative atomising gases are also being tested. The use of nitrogen allows for material savings ranging from 5% to 45%. Beyond this, a corresponding process which, in the meantime, has proven its worth in various series applications in the automotive industry, offers advantages with regard to painting quality, throughput and system availability.

Innovations and further developments will await visitors throughout the entire exhibition programme at PaintExpo which covers coating equipment, application systems and spray guns, liquid paints and powdered enamels, automation and conveyor technology, cleaning and pre-treatment, drying and curing, environmental technology, pneumatics, compressed air supply and exhaust purification, water treatment, recycling and disposal, accessories, measuring and test technology, quality assurance, paint stripping, job-shop coating, services and technical literature as well as identification, printing and packaging.

The WTT Expo trade fair for industrial heating and cooling technology and the HallTec trade fair for technical building equipment for industry and the commercial trades will take place concurrent to PaintExpo 2014 at the Karlsruhe Exhibition Centre.

Further information and a preliminary exhibitor list can be accessed at www.paintexpo.com.

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PaintExpo Press Release 5 – February 2014

**5th Leading International Trade Fair for Industrial Coating Technology from 8 through 11 April 2014 in Karlsruhe (Germany)
PaintExpo – Coating Technology Innovations and Trends from More Than 450 Companies**

Oberboihingen – With over 450 companies, the 5th PaintExpo in Karlsruhe from 8 to 11 April 2014 will have more participating exhibitors than ever before. Exhibitors from 23 countries will present solutions for more efficient liquid painting, powder coating and coil coating on more than 133,000 square feet of net exhibition floor space. Offerings which cover a broad variety of industries and materials encompass the entire process sequence from pre-treatment, right on up to quality control and packaging.

More than 450 exhibitors will present products, processes and services exclusively from the field of industrial coating technology at PaintExpo at the Karlsruhe Exhibition Centre from the 8th through the 11th of April, 2014. They'll travel to the event from 23 countries, and roughly 25% of the participating companies come from outside of Germany. As compared with its last event in 2012, the 5th leading international trade fair for industrial coating technology is distinguished by approximately 10% growth in exhibitor numbers. Occupied net exhibition floor space has also experienced a significant boost of about 19% to 133,000 square feet. Available booth locations are nearly booked out.

Experience New Products Live

“PaintExpo 2014 will not only showcase the world's most comprehensive offerings for liquid painting, powder coating and coil coating, it will also present innovations, further developments and new trends in all of the sectors represented at the exhibition. Numerous live demonstrations will await the visitors”, reports Jürgen Haußmann, managing director of event promoters FairFair GmbH. For example, the demonstration of UV technology which cures the painted object within a matter of seconds in an inert gas atmosphere is at the height of fashion. At another booth, a

compact, fully automated powder coating machine will coat small parts in continuous operation. An innovative light tunnel allows for reliable inspection of painted auto bodies. Visitors will be able to see for themselves how quickly and reliably defects are detected at a live demonstration. Where conveyor technology and automation of the painting process with robots are concerned, various “moving” exhibits will substantiate just how flexible and adaptable these systems are today, and how easy they are to programme.

Innovative Solutions for Everything from Pre-Treatment to Packaging

And the list of offerings covering innovations and further developments is far from exhausted here. For example, exhibitors will present new processes and products for more efficient and ecological cleaning and pre-treatment of metallic surfaces – amongst others solutions based on renewable raw materials. New solutions for blasting, grinding and ionising metal, plastic and wooden surfaces will also be premiered at PaintExpo, as well as system concepts which reduce energy consumption for powder coating and liquid painting, and at the same time increase flexibility with regard to processes, manufacturing lot quantities and expandability. Where application is concerned, new and enhanced paint guns and atomisers, as well as alternative atomising gases, are increasing material efficiency and improving quality.

The exhibitors at this year’s PaintExpo will also present lots of new products in the areas of liquid and UV paint systems, as well as powdered enamel systems. Amongst other things, emphasis in the field of powdered enamels will be placed on further improvement of corrosion protection, lower baking temperatures and reduced material consumption with the help of ultrathin-layer systems. New processes, for instance for energy-saving powder coatings and the production of chrome-VI-free surfaces, will also be presented at PaintExpo.

Perhaps somewhat less spectacular but no less interesting are innovations in the field of test and inspection systems, accessories such as covering materials, painting hangers, filters and pumps, as well as paint stripping and packaging solutions.

In cooperation with the DFO e.V. (German research association for surface finishing), an expert forum will take place on all four days of this year's PaintExpo with interesting presentations held in German from all fields of industrial coating technology. The spectrum ranges from issues concerning process optimisation for liquid painting and powder coating, as well as pre-treatment and quality control, right on up to environmental engineering and purification technology.

PaintExpo will take place at the Karlsruhe Exhibition Centre from 8 through 11 April 2014, and will be open Tuesday through Thursday from 9 a.m. to 5 p.m., and on Friday from 9 a.m. to 4 p.m. The WTT Expo trade fair for industrial heating and cooling technology and the HallTec trade fair for technical building equipment for industry and the commercial trades will take place concurrent to PaintExpo 2014 from Tuesday through Thursday.

Further information, the exhibition programme and a preliminary exhibitor list can be accessed at www.paintexpo.de.

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