COATINGS

KOREA

MOWA



ROWA (M) MASTERBATCH ROMIRA

Tramaco

ROWASOL

ROWALACK <



Dear Business Associates, Ladies and Gentlemen,

this year Germany's chemicals sector is expecting a 1.5 percent increase in revenue as compared to the previous year. In 2014 the chemical industry continued to grow slowly but gradually, yielding record level revenues in its

fifth consecutive year. The ROWA GROUP too, draws a positive balance for the year 2014 and aims to continue this trend, not least in consideration of increasingly fast shifting markets that make consistent critical analysis of our own business model in terms of sustainability the company's foremost imperative. In order to maintain your loyalty as well as our own power to compete, our focus shall remain on embracing innovation and capitalizing on our core abilities - thus it becomes vital to persist in fostering close collaboration among the single business divisions of the ROWA GROUP.

2015 is the year of a number of important trade exhibitions. The congress of the Association of German Engineers (VDI) in Mannheim, one of the industry's main venues and also a major market place, naturally stands at the top of the agenda. We also look forward to meeting you in person at the European Coatings Show in April, first address for the lacquer and coatings industry, and also the place where representatives of TRAMACO and ROWA Lack will be present to answer any questions you might have. A detailed description of what to expect there at booth Nr 1-609 can be found on the following pages of this issue of ROWAnews. As the year progresses, we shall also be exhibiting our line of products at Frankfurt's annual Techtextil and at the Fakuma trade fair in Friedrichshafen. However, we do not limit ourselves to trade exhibitions in Germany only. This year too, we shall be in Orlando where we hope our vast portfolio of products will be resonating positively with clients and potential business associates alike.

Furthermore, we are proud to announce ROMIRA's upcoming 25th anniversary and, considering France is the third largest market for synthetics in Europe, its succession in having a ROTEC acrylate polymer accepted into serial production at a large French automotive component supplier. Only a venture expanding through growth is a successful one, which is why we are pleased to introduce three new members of staff at ROMIRA in this issue of ROWAnews.

Last but not least, we'd like to keep you informed about our business activities as well as our line up of products and, in the light of Pantone's annually declared 'Color of the Year', which in 2015 is Marsala, we shall even allow you to take a glimpse at our secret Masterbatch recipe.

### ROWAGROUP

# **ROWA international: Growth in America**

FRANCE



At ROWA Inc./GROUP USA LLC, the North American operation of the ROWA GROUP, 2015 will be characterized by enhancements and changes: Thanks to additional staffing, technically advanced equipment and the move to a larger modern Technology Center, the company is able to service current and future customers more efficiently and effectively.

ROWA Inc. has grown significantly in the past four years in advanced technologies for specialty engineered compounds and masterbatches including chemical foaming agents, highly loaded and multi-functional UV/AO masterbatch concentrates. The fully functional polymer laboratory allows for mechanical testing, analytical testing and color technology. Furthermore ROWA Inc. invested in production equipment in both compounding and blending. In addition to the new engineering staff the company was able to gain a new customer service professional, Melissa Halliday. Also Michael Lauck joined the Business Development Team. ROWA Inc. currently produces and distributes highquality materials for the plastics processing industry for its sister facilities ROMIRA, TRAMACO and ROWA Masterbatch. For the next three years the company expects a solid growth with the highest demand for ROMIRAs specialty engineered products.

"We are grateful for the support of our Germany parent company and sister facilities. We have a good overall group of companies with a lot of great technology worldwide. We are excited about the USA economy rebound and look forward to even greater things to come in the future", commented Dave Baglia, president of ROWA Inc.

For more information on ROWA Inc. as well as contact details please visit: www.rowainc.net www.rowa-group.com

Best regards, Kai Müller The move to the state-of-the art technology center will be completed by the end of 2015. The new center will allow ROWA Inc. to reduce lead times to better service its customers. More information

www.rowainc.net www.rowa-group.com Dave Baglia · Tel.: +1 609 567 8600 dave.baglia@rowainc.net

ROWA GROUP		TRAMACO		ROWA MASTERBATCH	
ROWA international: Growth in America	1	New TRAMACO team member	2	Laser-sensitive masterbatches without heavy metals	6
Orlando calling: ROWA on NPE 2015	2			ROWA Masterbatch is following the trend	7
The ROWA GROUP at trade fairs 2015	8	ROWA LACK			
		The ROWA Lack premium portfolio: an overview	3-4	ROMIRA	
TRAMACO/ROWA LACK		2-Pack protective films for tarpaulins with excellent characteristics	4	ROMIRA sets a milestone in the French market	7
Techtextil 2015 with ROWA Lack and TRAMACO	2	Fantastic colours: ROWA Lack develops new ROWALID® products	5	ROMIRA 2015: A strong team	8
ECS: the world's leading trade fair of the paint and					
lacquer industry	2	ROWASOL			
		ROWASOL counting on international partnerships	5		



#### ROWALACK 👊 Tramaco

### **ROWA GROUP**

# **Orlando calling: ROWA on NPE 2015**



From March 23-27, the largest Plastics show in North America is happening in Orlando, Florida: the National Plastics Exposition (NPE). The show organizer is expecting upwards of 100,000 exhibitors and visitors especially industry professionals. NPE 2015 is expected to potentially be the largest attended show in its 40 year history.

At booth S-22169 the ROWA GROUP with ROMIRA, TRAMACO, ROWA Masterbatch and ROWA Inc./Group USA LLC is exhibiting. The booth plans are similar to the booths displayed at the Fakuma and K-Show: In a warm inviting environment where a pastry and coffee can be shared the ROWA staff is presenting the extensive portfolio and its technical competency. The ROWA GROUP is looking forward to fruitful conversations with current and new customers.

Divided in business divisions ROWA is presenting the following products at the booth:

### **TRAMACO**

- · Chemical foaming agents in powder, pellet and liquid form
- · New highly loaded foaming agent masterbatches for excellent product quality

### **ROWA Masterbatch**

- · New products, for example light diffusion of transparent thermoplastics such as PS, PC, SAN and PMMA
- Invisible marker for protection against plagiarism analog to a finger print for highest standards to forgery protection

# **Techtextil 2015 with ROWA Lack and TRAMACO**

In 2015, ROWA Lack will be exhibiting not only at the European Coatings Show (ECS), but there will be a further trade fair highlight: the Techtextil in Frankfurt am Main. This is regarded as the leading trade fair for technical textiles and non-wovens. ROWA Lack will use it as a platform to present new



products to visitors and to provide project-related, application engineering support. Once again, this leading manufacturer of special lacquers for the coatings and plastics industries will have its own booth at the Techtextil. From 4 to 7 May 2015, interested visitors can exchange information with the experts from ROWA Lack in Hall 3, Booth F53 and find out about the entire product range. ROWA Lack delivers its products to customers from the coating industry around

the globe from its sites in Pinneberg, Seevetal and Yesan (South Korea). An interesting supplement to the ROWA Lack portfolio will be offered by TRAMACO, who will be presenting Techtextil visitors its products such as adhesion promoters and chemical foaming agents. ROWA Lack and TRAMACO are

looking forward to interesting discussions and invite all customers to visit them at the trade fair.



Dr. Dennis Stoltenberg · Tel.: +49 4101 706 189 d.stoltenberg@rowa-lack.de

# ECS: the world's leading trade fair of the paint and lacquer industry



TRAMACO's innovative exhibition booth

The European Coatings Show (ECS) is the world's largest trade exhibition for paints and lacquers as well as adhesives and sealants. Every two years, specialists from the lacquers and coatings industry meet in Nuremberg to exchange information and to present new products.

The ROWA GROUP will be represented at this year's ECS (21 to 23 April) by TRAMACO and ROWA Lack. All trade fair visitors are cordially invited to visit the joint stand in Hall 1, Booth 609, to find out about the comprehensive product programme that focuses on adhesion promoters for paints, lacquers, printing inks and adhesives. The specialists from TRAMACO and ROWA Lack are looking forward to personal discussions and will be presenting their current product portfolios along with new, innovative solutions.

### The TRAMACO portfolio

With its brands TRAPUR® and TRAPYLEN®, TRAMACO will be presenting at the ECS its high-performance primer and adhesion promoter systems for plastic surfaces that are difficult to coat. These can be used in solvent-based, water-based or UV-curable products. The chemically modified polyolefin-based TRAPYLEN® is one of the most commonly used products for coating plastics. The portfolio also includes CPOs (chlorinated polyolefins) and APOs (acrylatemodified polyolefins). This provides suitable products for a large range of applications. Naturally, TRAMACO addresses individual customer requirements and develops appropriate solutions.

### The ROWA Lack portfolio

Alongside TRAMACO, ROWA Lack will be presenting at the ECS its high-quality water-based and solventcontaining lacquers based on acrylates, PVC, polyurethanes and fluoropolymers. These lacquers are used, in particular, in the fields of PVC tarpaulins, textile constructions, print media, automobile interiors, furniture foils, decorative foils and synthetic leather.



### **ROMIRA**

- · Highly specialized weatherable polymers such as ASA, ASA/PC and ASA/PA
- · Automotive approved technical plastics
- New emerging products like ROTEC<sup>®</sup> PP "Soft Touch" alloy

All products of TRAMACO, ROWA Masterbatch and ROMIRA are available through ROWA Inc!



www.rowainc.net www.rowa-group.com Dave Baglia · Tel.: +1 609 567 8600 dave.baglia@rowainc.net

www.tramaco.de Thorsten Halberstadt · Tel.: +49 4101 706 130 t halberstadt@tramaco.de

# New TRAMACO team member



In September 2014 Krämer. Before joining the team at Karin Kosmiadi TRAMACO she had been working in Hamburg for the past thirteen has taken up her work in indoor years as an account manager in international sales of cellulose after sales of our foaming agents at previously having lived and worked TRAMACO and in New York for several years. In the coming years Karin Kosmiadi at year-end she took over the position of Helmut would now like to dedicate herself

to her contribution to the continuation and expansion of the successful work of the TRAMACO sales team in Pinneberg.



www.tramaco.de Karin Kosmiadi · Tel.: +49 4101 706 107 k.kosmiadi@tramaco.de







# The ROWA Lack premium portfolio: an overview

Even before the Techtextil and the ECS, interested readers can find out here about the comprehensive portfolio of ROWA Lack in three especially important segments.

#### **PVC** tarpaulins

Truck covers, awnings, materials for halls and tents – all these products fall into the group of PVC tarpaulins. They all have nearly the same structure: a PVCcoated polyester fabric, which is of course available in a wide range of colours. Also included in this group are PVC and TPO roofing sheets and swimming pool liners.

These materials are generally used in outdoor applications. This means that the coating systems used on the tarpaulin must provide good resistance to weathering and UV-radiation. High-quality acrylate coatings of the ROWAKRYL® series can be used for this, whereby solvent-based grades are used in most cases. These coating systems are able to minimise the migration of plasticisers from the PVC base material to the surface. Further remarkable properties of the ROWAKRYL® products include their ability to provide a low tendency to dirt pick-up and good cleaning characteristics. In many cases, the coating systems for this application field must also provide good weldability so that the finished tarpaulins can be tailored further. This requirement is also fulfilled by many of the ROWA lacquers.

The ROWALID® TIM product group of ROWA Lack offers a range of high-quality metal-effect lacquers in addition to its standard portfolio for PVC tarpaulins. These effect lacquers, generally silver- or gold-coloured, are usually coated on grey, respectively, yellow or orange base material in order to intensify the silver or golden colour effect. Although the ROWALID® TIM effect lacquers also provide most of the properties of the ROWAKRYL® products, they should always be optimised with respect to one or more other properties, depending on customer requirements. For example, it is possible to obtain elastic, flexible as well as weather-resistant films after coating that can still be welded during tailoring. Also ROWALID® TIM lacquers are always guaranteed to provide a low tendency to dirt pick-up and excellent cleaning characteristics.

ROWA Lack always aims to continuously develop its products, not only with respect to constant flow of new customer requirements. This also applies to the solvent composition, particularly on account of the current requirements of the REACH Regulation and especially with respect to the SVHC candidate list (SVHC: substances of very high concern), Annex XIV (List of substances subjected to authorisation) and Annex XVII (List of restrictions) of this regulation.



Special coating systems for PVC tarpaulins are part of ROWA's extensive range of coatings

established systems – particularly in the field of PVC tarpaulin coatings. The properties of the finished film coating are usually completely retained because the binding agent base does not need to be changed in many cases. Thus, amongst the solvent-containing products, the SVHC-free lacquers represent a perspective for the future, and their market fraction will continue to increase in the coming years.

A further method of formulating SVHC-free coating materials is to use aqueous dispersions. Many of the lacquers based on these raw materials do not contain any solvents. Suitable aqueous coating systems are available for many of the surfaces to be coated with ROWA products. Naturally, also PVC-coated tarpaulins can be finished with these products.

#### **Textile construction**

Textile structures are gaining in popularity around the globe as a component of modern architecture. The ROWAFLON® product group from ROWA Lack has been available for decades for such applications. This range of high-quality fluoropolymer coating systems has been continuously developed and improved. A ROWAFLON<sup>®</sup> coating is the first choice for membranes and fabrics used for textile architecture, roofing, sun protection and for halls and tents. Due to their good resistance to weathering and UV-radiation, the ROWAFLON<sup>®</sup> PVDF coating systems have more than proved themselves in everyday use. Further exceptional service characteristics of ROWAFLON®-protected flexible membranes include their low dirt pick-up tendency in combination with excellent cleaning characteristics and an effective barrier to plasticiser migration.

a PVC-coated fabric. However, such a coating is often insufficient for textile constructions. Intensive and long-term UV-radiation damages the interface layer between the coating, which is transparent to UV-radiation, and the PVC-coated fabric. The consequence is impaired adhesion between the top coat and the PVC surface. Although the lacquer film is still completely intact, this has a negative effect on the performance characteristics of the membrane. For this reason, the UV-protection properties of the ROWA-FLON<sup>®</sup> coating systems have been significantly improved in recent years. Consequently, ROWA Lack was able to noticeably increase the service life of the coated tarpaulin fabric. The aforementioned effect of PVC damage can be greatly alleviated by using ROWAFLON<sup>®</sup> UV protection primers, in which case the coating has a 2 layer structure. The additional UVprotection component reflects a part of the incoming UV-radiation and absorbs a further large fraction. The sensitive PVC surface thus remains protected. The protection efficiency decreases only marginally over the years because the formulated light stabiliser has a high (photo)chemical resistance. Depending on the coating thickness, the UV protection systems can filter out more than 80 percent of the UV-radiation in sunlight. Nevertheless, the transparency in the visible wavelength range is still more than 70 percent.

Whereas solvents such as DMF (*N*,*N*-dimethylformamide) and, in technical coating terms, the almost equivalent compounds DMAC (*N*,*N*-dimethylacetamide), NMP (*N*-methyl-2-pyrrolidone) and NEP (*N*-ethyl-2-pyrrolidone) were used in nearly all lacquers until a few years ago, there are now new requirements for the coating composition. In the meantime, owing to the continuous optimisation and further development of its products, ROWA is able to offer a SVHC-free alternative within a short time for many

For halls and tents used outdoors, a 1 layer coating is generally used on high-quality tarpaulins based on It goes without saying that also the ROWAFLON<sup>®</sup> products of ROWA Lack comply with the requirements of the REACH Regulation. Both, the proven ROWAFLON<sup>®</sup> top coats as well as the newer ROWAFLON<sup>®</sup> UV protection primers are now available as variants that do not contain any solvents which are SVHC candidates or even substances on the authorisation or restriction lists.

continued on page 4



### ROWALACK <

#### Print media

Print media are essentially PVC-coated fabrics such as backlit, frontlit and side-curtains. Their coating requirements are largely the same as those for PVC tarpaulins. Furthermore, the coated surfaces must be capable of being printed with the various large-format printing systems (solvent- and UV-based) as well as with modern latex printing systems. Particularly suitable in this case are products from the ROWAKRYL<sup>®</sup> series that have been specially optimised with respect to their printability. They ensure brilliant printed results and good adhesion of the printing ink. Even if the coated goods are stored for an extended period, the printing properties remain unaffected due to the special lacquer formulation. In addition and irrespective of the base material, ROWAKRYL<sup>®</sup> lacquers generally provide a consistent printing profile.

As can be expected from ROWA Lack, many of these coating systems are now available as SVHC-free variants and in some cases as technically equivalent water-borne lacquers.

In addition to the ongoing endeavours to offer customers in all application fields products that are as environmentally friendly as possible by using alternative solvents or water-borne coatings, ROWA Lack has been operating since 2005 in accordance with the Guidelines of the Environmental Management Systems Certification ISO 14001.

Along with the aforementioned product groups, ROWA Lack will also be presenting the latest developments in coating products for the fields of synthetic leather, furniture foils, decorative foils and automobile interiors.



www.rowa-lack.de Dr. Dennis Stoltenberg · Tel.: +49 4101 706 189 d.stoltenberg@rowa-lack.de

## 2-Pack protective films for tarpaulins with excellent characteristics



ROWA Lack has been working for many years with CMR Coatings GmbH, a strong partner in the field of protective films and liquid laminates. CMR Coatings, which is based in Vlotho (North Rhine-Westphalia, Germany), is a competent contact partner and supplier of lacquer systems for finishing and protecting the surfaces of all kinds of substrates. Naturally, the recipes and quality of the products remains the same. The only changes for customers are the product names and the contact partner. Both products have now been marketed for four years by CMR Coatings under the following designations: • Substrates that are printed with pigmented, solventcontaining or UV-curing inks receive excellent protection because the lacquer provides very good mechanical stability and a low tendency to dirt pickup.

• The liquid laminates offer long-lasting protection against UV radiation and weathering (up to 5 years if properly prepared and professionally applied). Furthermore, they achieve colours with an excellent brilliance that remains stable over a long period.

The protective lacquers also retain their very good properties on latex inks. There is currently no other commercially available protective lacquer system that universally covers the wide range of possible combinations of tarpaulin materials and printing inks.

CMR Coatings is one of the few developers and producers of lacquer systems for graphics applications that offers its customers professional support when selecting the appropriate protective lacquer. Their own laboratory provides assistance in finding the best solutions. At the same time, CMR is able to offer customers lacquers that are closely tailored to their individual requirements.

The original protective lacquers and liquid laminates of ROWA Lack already cover a wide spectrum of possible combinations of tarpaulin materials and printing inks without the need to adapt recipes. Thus today's protective lacquers, CMR-440 and CMR-450, are reliable basic products from CMR Coatings.

The close cooperation between ROWA Lack and CMR Coatings during the development of lacquers and protective films for various applications was very fruitful.

This is why CMR Coatings obtained a license from ROWA Lack for the production and marketing of two types of "protective lacquer for printed tarpaulin fabrics". At the same time, the production of the protective lacquers was relocated from Seevetal to Vlotho. CMR-440: 2-pack protective film for tarpaulins – manual application with CMR-640 curing agent

CMR-450: 2-pack protective film for tarpaulins – machine application with CMR-640 curing agent

The already very diversified portfolio of the Vlothobased company was thus extended by two further protective coatings with impressive properties:

• These water-based 2-pack polyurethane-based protective films provide a transparent, highly flexible coating that is particularly suitable for PVC banners and truck covers.

The property profile of the liquid laminates is also maintained in combination with various latex inks. This has been verified and confirmed in joint investigations and long-term tests with the respective ink manufacturers.



www.rowa-lack.de Helmut Völlinger · Tel.: +49 4101 706 148 h.voellinger@rowa-lack.de



# Fantastic colours: ROWA Lack develops new ROWALID® products



Now that the existing standard range of ROWALID<sup>®</sup> PVC pigment preparations has been successfully launched on the market, ROWA Lack has added more colour shades to the product portfolio. Development focussed on shades of yellow, green and black to supplement the existing range of products for particular target groups.

The ROWALID<sup>®</sup> products are highly concentrated single-pigment preparations incorporated into a PVC carrier system. ROWALID<sup>®</sup> PVC preparations are manufactured using a special process that maximises pigment distribution to a degree that cannot be achieved using conventional dispersion methods. In today's economic climate, which is becoming increasingly complex and requires very discriminating procedures, simple handling of products is a particular advantage. The product is delivered as a "micropowder" with a defined range of grain sizes that provides a wide compatibility spectrum. The highly concentrated pigment dispersions also guarantee a high colour strength and transparency. In contrast to pure pigments, these preparations do not need complicated dispersing techniques in order to achieve a speck-free distribution and maximum colour strength. Customers will find colourising their products is easy using ROWALID<sup>®</sup> preparations.

The ROWALID<sup>®</sup> PVC pigment preparations from ROWA Lack offer a standard range of colour shades with impressive properties. In collaboration with their

customers and based on individual requirements, ROWA Lack can also develop special products for particular projects, for example, by varying the type of pigments and their content.

Visitors to ECS 2015 can obtain more information on the product range at Stand No. 1-609. ROWA Lack is looking forward to meeting plenty of visitors.



www.rowa-lack.de Jörk Krumwiede · Tel.: +49 4101 706 124 j.krumwiede@rowa-lack.de

ROWALID <sup>®</sup> PVC-pigment preparations							
Product name		Colour Index			Pigment content		
R0'	WALID <sup>®</sup> PPY 4019		Yellow 110		50%		
R0'	Walid® PPY 4554		Yellow 138		50%		
RO	Walid® PPY 4646		Yellow 139		50%		
RO	Walid® PPG 652		Green 7		50%		
RO	Walid® PPK 4647		Black 7 FDA / equates 21 CFR 178.3297		25%		
RO	Walid® PPK 4693		Black 7		50%		

ROWA Lack expands its standard range to yellow, green and black pigment preparations

### ROWASOL

# **ROWASOL** counting on international partnerships

With the help of international partnerships, ROWASOL is making increasing investments in the southeast Asian market, so underlining the global orientation of the entire ROWA GROUP.

### Sales partnership with MahaChem

In order to meet the increasing demand for liquid colours in the Asian region, ROWASOL entered into a sales partnership with Maha Chemicals Pte Ltd of Singapore at the end of 2014. Maha is a distributor of special chemicals, with branches and depots at all important locations in southeast Asia. This enables it to offer the best possible customer service for a product subject to declaration like liquid colour. MahaChem distributes products in the surface technology, engineering materials, living science and eco solutions sectors. Among its partners are Cabot, Celanese and Arkema.

### MID: a partner for dosing technology

To equip its plants worldwide with dosing technology for liquid colour, ROWASOL relies on the ultra-modern pump systems of Micro Interface Design (MID). The Canadian specialist in production and dosing technology offers an extensive portfolio of volumetric and gravimetric peristaltic and progressive cavity pumps. These pumps can be used flexibly and in a fully automated way both for injection moulding and for extrusion. Consequently there are no limits on the choice of stock container. In case of need, the dosing systems can be equipped with WLAN and centrally controlled.



Comprehensive information about the manufacturing company may be found at: www.mahachem.com.

As a result of MID's global distribution network, prospective customers for liquid colour can thus be advised and supplied on local level. Above all with a view to the company's developing sales activities in southeast Asia, a locally based supplier of dosing equipment is essential for new customer business.

Further information about MID may be found at: www.microinterfacedesign.com.

Gravimetric dosing system by MID

### More information

www.rowasol.de Udo Wilkens · Tel.: +49 4101 706 335 u.wilkens@romira.de



# ROWA





## Laser-sensitive masterbatches without heavy metals



The marking laser provides a crisp, high-contrast typeface

As an innovative manufacturer of high-quality colour, additive and multifunctional masterbatches, ROWA Masterbatch is continuously expanding and developing its comprehensive product portfolio. The manufacturer has succeeded in developing an antimony-free ROWALID®-LS masterbatch, a new product that can be used safely in all sensitive areas, e.g. in medical engineering or in housings for technical equipment. This masterbatch does not contain any heavy metals, complies with the REACH Regulation and is also suitable for use on food packagings. Plastics can be marked directly with important retailer or consumer information, such as serial numbers, bar codes and expiration dates.

#### All from one source

In addition to the ongoing development of its product range, ROWA Masterbatch offers its customer a comprehensive service from one source: the Pinneberg-based manufacturer is able to carry out laser marking of plastics and thus provide individual customer-specific solutions. ROWA Masterbatch accomplishes this in its modern testing facilities using a high-performance marking laser manufactured by Photonenwerke. Marking is carried out with a neodymium-doped, yttrium vanadate laser at a wavelength of 1064 nm.

The requirements for laser marking are quickly fixed: Crisp, high-contrast markings with the least possible height. If successful, this gives the user particular advantages. The marking is permanent and resistant to chemicals. The marking process is fast, contactless and completely

flexible. Furthermore, it requires no coatings, solvents, etchants or other chemicals

Additives such as fillers, agents and pigments affect the quality of the appearance. Since most plastics cannot be marked without the presence of special laser-sensitive additives, these have to be added to achieve optimum marking results. The colour change is due to the energy of the laser beam changing the optical properties of the added pigments, while leaving the surface practically undamaged. In practice, contour sharpness and contrast are often improved by adding laser-sensitive pigments to the plastic granulate.

Typical application fields for ROWALID<sup>®</sup>-LS Masterbatches include computer keyboards, switches in cars, markings on food packagings, animal ear tags as well as logos and markings on the casings of mobile phones. ROWA Masterbatch uses a variety of thermoplastic resins, e.g. PE, PP, PA, PMMA, PC, ABS, SAN and ASA. The laser markability of plastics is a very complex topic.

Nevertheless, marking of plastics with a laser is affected by a number of factors. For example, the quality of the markability depends on the homogeneity of the moulding compound, the optimum distribution of the laser additive as well as the laser parameters (intensity, speed, etc.). Foaming, carbonising or colour changes arise from positive interactions between the material's properties and the laser wavelength. But watch out: not every laser additive is suitable for every plastic or every application.

#### Effects of recipe ingredients

The recipe ingredients also influence the laser markability. For example, inorganic pigments scatter the laser beam more strongly than organic pigments. At high titanium dioxide concentrations, this means that less light reaches the laser additive and the marking is thus less intense. Black pigments such as carbon black strongly absorb the laser beam. This may lead to intense heating and the material may even vaporise. Flame retardants generally have a negative effect on the appearance of the markings. On the other hand, glass fibres, which are used as reinforcement, have little effect on the laser markability.



www.rowa-masterbatch.de Ulf Malcharczik · Tel.: +49 4101 706 154 u.malcharczik@rowa-masterbatch.de

ROWALID <sup>®</sup> LS product list					
Produktbezeichnung / Product Name	Anwendung / Application	Farbe der Markierung / Colour of marking	Masterbatchtyp / Masterbatch type		
Rowalid® PC-32196 LS RAPSGELB TRANSPARENT	Lab Science	Lab Science	Kombination Farbe / Laseradditiv Combination colour / laser additive		
ROWALID® PC-9294 LS	Lab Science	dunkelgrau / dark grey	Laseradditiv Masterbatch / Laser Additive Masterbatch		
ROWALID® PC-23140 LS BLUTORANGE	Lab Science	dunkelgrau / dark grey	Kombination Farbe / Laseradditiv Combination colour / laser additive		
ROWALID® PA-19269 LS SCHWARZ	Automotive Interior	weiß / white	Kombination Farbe / Laseradditiv Combination colour / laser additive		
ROWALID® ABS-9435 LS	Gehäuse Elektronikgeräte / Housing for electronic devices	weiß / white	Laseradditiv Masterbatch / Laser Additive Masterbatch		
ROWALID® ABS-9476 LS	Gehäuse Elektronikgeräte / Housing for electronic devices	dunkelgrau / dark grey	Laseradditiv Masterbatch / Laser Additive Masterbatch		
ROWALID® PBT-63585 LS GRAU	Computertastaturen / Computer keyboards	hellgrau / light grey	Kombination Farbe / Laseradditiv Combination colour / laser additive		
ROWALID® SAN-23296 LS ORANGE	Gehäuse medizinische Geräte / Housing for medical devices	dunkelgrau / dark grey	Kombination Farbe / Laseradditiv Combination colour / laser additive		
ROWALID® TPU-32470 LS GELB	Tierohrmarken / Animal ear tags	grau / grey	Kombination Farbe / Laseradditiv Combination colour / laser additive		





# **ROWA Masterbatch is following the trend**



Earthy, smoky and warm - Marsala, named after the Italian fortified wine from Sicily - was selected by trend experts to be the PANTONE Colour of the Year 2015. The trend scouts take their inspiration not only from art exhibitions and the latest films, but also from tourist destinations and sporting events.

This trend colour, number 18-1438, enriches our mind, body and soul, exuding confidence and stability. "Much like the fortified wine that gives Marsala its

### name, this tasteful hue embodies the satisfying richness of a fulfilling meal while its grounding red-brown roots emanate a sophisticated, natural earthiness", explains Leatrice Eiseman, Executive Director of the Pantone Color Institute<sup>®</sup>.

The dark red-brown is powerful and stylish, yet natural at the same time - the perfect colour for design elements, fashion and cosmetic products. In the coming months, Marsala will find increasing use in interiors and industrial design.

ROWA Masterbatch has added the Pantone Colour of the Year 2015 to its range as "ROWALID® Marsala" and can supply polymer-specific colour concentrates to suit the individual requirements of its customers.

ROWA Masterbatch has been inspired by this trendy colour and now shares one of its fa-

vourite recipes with foodie readers - and of course it contains this delicious fortified wine as an ingredient.



www.rowa-masterbatch.de Bernhard Scheffold · Tel.: +49 4101 706 255 b.scheffold@rowa-masterbatch.de

# Orange and Marsala Chicken

### For 4 portions

1 broiler chicken, salt, pepper, 4 oranges, 1/2 bunch thyme, 1/2 bunch oregano, 6 garlic cloves, 1 dried chilli pepper, 4 tbsp. olive oil, 125 ml dry Marsala, 2 tbsp. orange marmalade, 2 tbsp. pine nuts, 1 tbsp. capers or caper berries

### Method

Divide the chicken into 8 pieces. Wash with cold water, pat dry, and rub in salt and pepper. Squeeze three oranges. Wash the herbs, gently pat dry and then strip off the leaves. Peel the onions and garlic. Cut the onions into eighths and leave the garlic cloves whole. Crumble the chilli.

Heat 2 tbsp. oil in a saucepan. Brown the chikken pieces well and then remove. Fry the onions and garlic in the oil remaining in the pan until glassy. Add the herbs, and de-glaze with Marsala and orange juice. Mix in the crumbled chilli and the orange marmalade. Season with salt. Place the chicken pieces back into the pan, cover with a lid and simmer on a low heat for about 40 minutes. Just before the end of the cooking time, peel the remaining orange. Cut out the orange fillets between the membranes and cut in half crossways, if desired. Heat the remaining oil and toast the pine nuts until golden yellow. Add the orange fillets, olives and capers to the sauce and heat gently. Sprinkle the pine nuts over the chicken and sauce, and then serve.



# **ROMIRA** sets a milestone in the French market



After Germany and Italy, France is the third larin technical applications in the high-end sector.

facturer with exterior parts made of ROTEC® acrylic gest plastics market in Europe and specialises copolymers. By changing to the ROTEC<sup>®</sup> acrylic copolymer with its superb surface finish, the manufac-



ROWA France Sales Manager Victor Fernandes

Huge success in our neighbouring country: Thanks to the incorporation of a ROTEC® acrylic copolymer into series production by a major automobile supplier, RO-MIRA has achieved a breakthrough on the French market!

ROMIRA's product portfolio has an outstanding position for these special requirements. Due to its very close cooperation with customers, its innovativeness and the range of customised solutions, the company is able to continuously improve the brand recognition of its products. As part of ROMIRA's internationalisation strategy, the ROWA France team was strengthened in 2012 by the experienced sales manager Victor Fernandes. Together with his office team at ROWA France, he acts as a competent contact partner for customers on site and thus supports sustainable business development.

The Pinneberg-based manufacturer is initially equipping a model of the largest French automobile manu-

turer no longer needs to paint the finished parts and thus impresses with quality, cost-effectiveness and sustainability at the same time. Further ROMIRA products are currently being sampled at other French automobile manufacturers and their suppliers. In addition to the automobile sector, ROWA France sees business opportunities in the sports industry as well as in household and drinking water applications.

### More information

www.romira.de Victor Fernandes · Tel.: +33(0)164681616 v.fernandes@rowa-france.com



Growth opportunities for

ROMIRA lie in geographical expansion and in the development of both existing and completely new applications. A key

factor for future success

is the effectiveness of

the R&D (Research and

Development) depart-

ment. On the basis of

this realisation, the R&D team was systematically

expanded with further

competences last year:

Alexander Exner, Frauke

Harpen and Dr. Milena

Pöhlmann are now rein-

forcing the team around

Dr. Jianmin Ding and Dr.

Daniela Tomova, who

### **ROWA GROUP**



# The ROWA GROUP at trade fairs 2015



Internationaler VDI-Kongress "Kunststoffe im Automobilbau 2015" Booth No. 16 **ROMIRA und ROWA Masterbatch** Mannheim 18.-19. March 2015



EC SHOW

**NPE 2015: The International Plastics Showcase** Booth No. S22169 ROWA USA, ROWA GROUP Orlando 23-27 March 2015

**European Coatings Show** Booth No. 1-609 TRAMACO with ROWA Lack Nuremberg 21-23 April 2015



**Automotive Interiors Expo ROMIRA and ROWA Masterbatch** Stuttgart 16-19 June 2015



automotive

EXPO2015

**FAKUMA – International trade** fair for plastics processing Hall B1, Booth No. 1212 **ROWA GROUP** Friedrichshafen 13-17 October 2015

Why not take these opportunities to meet the ROWA GROUP at trade fairs this year and get the latest news on our products.

IMPRINT

ROWA GROUP Holding GmbH Published by:

# **ROMIRA 2015: A strong team**



f.I.t.r.: ROMIRA Managing Director Stig Lindström, Dr Daniela Tomova, Frauke Harpen, Dr Milena Pöhlmann, Alexander Exner, Dr Jianmin Ding

have been working at ROMIRA since 2001 and 2005, respectively.

Due to international growth, the requirements facing ROMIRA are also increasing. Release procedures, in particular, are becoming more multi-faceted and complex. At the same time, it is very important to show regional presence and to offer customers technical on-site support. Whether it is a matter of continuing and retaining existing applications, improving particular technical and functional material properties or opening up new application fields: ROMIRA will always remain a reliable contact partner for its customers!

Bundling expert knowledge at ROMIRA is the key to the company's success and essential for its growth not only on the German market, but also worldwide.

The new team members in detail:

Dipl.-Chem. Alexander Exner (32) is currently doing his doctorate at the University of Bayreuth, focusing on the synthesis and application potentials of block copolymers based on polyisoprene and polyethylene oxide with tailored properties. ROMIRA benefits from his in-depth knowledge in polymer chemistry, particularly in the fields of development and process engineering. Although he initially focussed on basic research, he is more than happy with the much more practical direction his work is now taking, which also includes the introduction of new production techniques. "As a connecting link between development and production, I can track the entire production process from project start to series production," confirms Alexander Exner.

ROWALACK 🐠

Dipl.-Chem. Frauke Harpen (31) is also just about to complete her doctorate, which concerns the fabrication and characterisation of polyurethane-based nanocomposites. At ROMIRA, she is expanding her technical expertise not only in the development of engineering plastics but also in their colouration. Thanks to her communication skills, Frauke Harpen will also be acting as the contact partner for ROWA Inc., USA. ROMIRA is intensifying cooperation with its US subsidiary and will thus strengthen its presence on the American market.

Dr.-Ing. Milena Pöhlmann (42), an engineer who received her doctorate at the Leibniz Institute of Polymer Research in Dresden, has 20 years of experience in plastics - from synthesis to compounding to their processing by injection moulding. For the past seven years she has been focussing on the development of polyamide compounds, application engineering and customer support at large chemical companies. Thanks to her broad range of skills, Milena Pöhlmann will be expanding the ROMIRA team as a developer to explore new applications. She is enthusiastically taking on her new challenge of researching styrenecontaining polymers and their blends.



www.romira.de Stig Lindström · Tel.: +49 4101 706 344

	responsible according to the press law: Kai Müller
Edited by:	Menyesch Public Relations GmbH
Graphic Design:	Winneberger & Haacker
Print:	Print & More Piffrement

Tramaco

KOREA

Production and

products in Asia

Yesan Yeop

511-16, Joogyo-Ri,

Yesan-Gun, Chungnam-Do

Tel.: +82 41 335 42 03

Fax: +82 41 335 42 04

info@rowa-korea.com



#### ROWA Masterbatch GmbH Tramaco GmbH

Colour, Additive and Chemical Foaming Agents, Multifunctional Additive Masterbatches. Masterbatches Adhesion Promoters. Siemensstraße 1-3 Primers 25421 Pinneberg Siemensstraße 1-5 Tel.: +49 4101 706 01 25421 Pinneberg Fax: +49 4101 706 202 Tel.: +49 4101 706 02 info@rowa-masterbatch.de Fax: +49 4101 706 200 www.rowa-masterbatch.de info@tramaco.de www.tramaco.de



#### **ROMIRA GmbH** Technical Polymers and Blends Siemensstraße 1-3 25421 Pinneberg Tel.: +49 4101 706 03 Fax: +49 4101 706 300 info@romira.de www.romira.de

**ROWASOL GmbH** Liquid Colour and Additive Compounds Dosing Systems Siemensstraße 1-3 25421 Pinneberg Tel.: +49 4101 706 04 Fax: +49 4101 706 400 info@rowasol.de

www.rowasol.de

ROWASOL





**ROWA France S.a.r.L** Distribution of ROWA GROUP products in France 7. rue Albert Einstein 77420 Champs sur Marne Tel.: +33 1 646 81 616 Fax: +33 1 646 81 356 info@rowa-france.com sales@rowainc.net

FRANCE

**ROWA Inc.** Production and distribution of ROWA GROUP products in the USA 100 Ninth Street Hammonton, NJ 08037 Tel.: +1 609 567 8600

Rowa

COATINGS ROWA Korea Co., Ltd.

**ROWA Coatings Beijing** Trading Co., Ltd.

Distribution of ROWA Lack distribution of ROWA Lack products in China

> Room No. 1408/1409 **Jingguang Centre Office** Building Huijalou, Chaoyang District P.C. 100020. Beijing Tel.: +86 10 659 789 07 info@rowa-china.com

