

Newsletter

FESPA 2019

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PARTNER

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Combined theory and practice, including a discussion forum

RECENT NEWS

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NEW: DIGITAL PRINTABLE RESISTS

Sputter coating architectural glass



FESPA IN MUNICH

Doors open again for the FESPA from the 14 – 17 May 2019. Rallying under the motto “An Explosion of Possibilities” more than 700 exhibitors in six halls will be showing the diverse possibilities in the fields of screen printing, large format digital printing, textile printing and advertising technology. Further information at: www.fespa.com.

KIWO: Hall A6, Stand A13

KIWO will be showcasing the latest developments in the fields of screen-printable adhesives, resists and coatings, as well as its chemical products for screen printing. The range of chemical products will particularly feature photoemulsions for general graphic and industrial screen printing, T-shirt printing and special applications. KIWOMASK® UV 7322 VP will make its debut as an innovation in the field of resists and coatings: it is a screen-printable, UV-curable resist for selective brushing of substrate surfaces.

ULANO: Hall A6, Stand A13

ULANO is again sharing a stand with KIWO and will place its main emphasis on CDF® Vision: this is a capillary film for both UV and solvent based inks, which is especially suitable for demanding print jobs like ceramic transfers, object and bottle printing, as well as for printing the finest graphic detail.

Get your free FESPA ticket at:

<https://registration.n200.com/survey/0wb4nomq5qojj>



Innovative expansion of our product portfolio

RESISTS FOR DIGITAL PRINTING

For several years already, we have been offering our customers temporary protective coatings for various applications with our resists & coatings product range. What used to be a screen-printable scratch-resistant protective film has evolved over the years into a system of solutions for many different applications. Products from the KIWOMASK family are used e.g. in the manufacture of control panels, head-up displays, vehicle decor elements, heated rear-view mirrors or partially mirrored glass facades. However, screen printing, pad printing, roller coating or spray application are generally used to apply KIWOMASK products to the required surface.

Meanwhile, we can supply our customers with resists, which can be applied with digital printing machines for selected applications. KIWOMASK IJ 510 is already supplied as an inkjettable mask for partial sputter coating of architectural glass. With this technology, glass facades can be enhanced with decorative patterns or only partially functional layers are sputtered, which are not visible to the human eye. This coating reflects light in a wavelength range that birds can see. They recognise the coated pattern as an obstacle and can fly around the glass facade without colliding into it.



Photo: AGC Interpane

Inkjettable resists can also be used for many other applications. For example, for the partial etching of industrial signs or printed circuits with acid-based or alkaline etching media, for etching flat or hollow glass with hydrofluoric acid or for selective brushing of metal surfaces.



A flatbed digital printer was installed in the Kissel + Wolf application technology centre in Wiesloch at the beginning of this year for the sustained development of inkjettable resists. The machine will be used for the applications mentioned above and their application-related testing, as well as for masking customer-supplied substrates for qualification. This enables us to carry out printing tests for interested customers on their original substrate. The machine is

capable of masking substrates up to a maximum size of 508 mm x 360 mm and a maximum thickness of 100 mm. In addition to flat substrates, three-dimensional objects such as e.g. bottles can be printed up to a maximum thickness of 100 mm.



Interested in discovering new applications? Then contact us or visit our Partner Workshops 2019, please read relevant information on page 5.

Precise bonding

SCREEN-PRINTABLE PRESSURE-SENSITIVE ADHESIVES

Pressure-sensitive adhesives which are screen-printable find applications in many industrial sectors, such as automotive, household appliances, electronics, production of optical display instruments, as well as advertising and signage. The diversity of these fields requires an equally wide variety of substrates that need to be self-adhesive. These substrates, which have to be made self-adhesive, start with simple cardboard and range from metal foils and coated films to the plastic industry, encompassing foils, foams and hard materials of almost all common plastics (PVC, polycarbonate, polyester, polyethylene, polypropylene, PMMA, PUR, etc).



The particular advantage of the screen-printable pressure-sensitive adhesives lies mainly in the exactly defined adhesive contour. With this application, there is no problem in achieving accurate placement to the millimetre, even for fine filigree, free-standing adhesive geometries. In the screen printing process, the liquid adhesive is applied to the material to be printed (substrate) by means of a squeegee through the open areas of a stencil. This stencil is made from a patterned coated polyester mesh fabric, the open areas of which permit exact printing of the adhesive contours, while the closed areas prevent adhesive from passing through. The selection of the screen mesh (number of threads, thread diameter) defines the thickness of the adhesive coating.

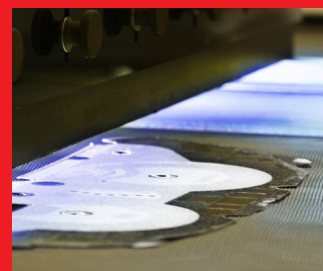
Screen-printable pressure-sensitive adhesives are generally available as solvent-based systems, aqueous dispersions or UV-crosslinking 100% systems. All three systems have their specific advantages and disadvantages, both of which should be more closely checked depending on the particular job requirement.

UV pressure-sensitive adhesives:

Thanks to UV drying, fast process times are possible, which compensate for the extra equipment required for drying and more extensive process control. Another advantage is the energy efficiency of UV curing compared to conventional drying ovens. The product range of UV pressure-sensitive adhesives available today do not yet have the versatility of their dispersion-based cousins - however, developmental work is underway to further optimise this product line.

Properties of UV-curing systems:

- Fast processing
- Easy to clean
- 100% solid
- No solvent emissions



Particularly noteworthy is KIWOPRINT® UV 92: a screen-printable UV pressure-sensitive adhesive with very good printing properties and balanced adhesive values. Typical applications are: dashboard instruments for the automotive and electronics sector, transfers, labels and stickers for indoor and outdoor use, such as for bicycle and vehicle decoration.

Get your registration in now

PARTNER WORKSHOPS 2019

Kissel + Wolf GmbH invites you to register for a Partner Workshop 2019 at its training centre in Wiesloch.

The workshop will encompass these topics:

- Screenprinting chemicals / stencil production with new product developments
- A workshop with KIWOPRINT adhesives
- New developments and market possibilities in the field of resists & coatings

Dates:

- September 16th - 17th, 2019 in German
- October 23rd - 24th, 2019 in English

To register, please fill out the attached PDF and send it to us.



Tammo Hess & Gerhard Spies

TAMMO HESS TAKES OVER AS MANAGING DIRECTOR

Tammo Hess was appointed a Managing Director of Kissel + Wolf GmbH on 1 January 2019 and runs the company jointly with Gerhard Spies.

After graduating from university, Tammo Hess began his career in Tamm as an executive responsible for the Marabu subsidiary companies and joined Kissel + Wolf GmbH, Wiesloch in 2006. Over the last 13 years, he has fulfilled a dual role as management board member and international sales director for screen and textile printing products. During this time, he was thus able to demonstrate his distinctive and comprehensive commercial and management skills.

„I'm very much looking forward to this new task and its associated challenge. I see my mission as continuing to write the success story of Kissel + Wolf“, Tammo Hess commented.

Coinciding with the new appointment of Tammo Hess, the company announces another change in its management: Gerhard Spies will leave the company on 30 June 2019, to enjoy his well-earned retirement.

Kissel + Wolf

