



Sealing Solutions

Sonderhoff Suzhou at Chinaplas 2014

Sonderhoff (Suzhou) Sealing Systems Co., Ltd. will attend this year's Chinaplas, Asia's biggest plastics and rubber trade fair held in Shanghai from April 23-26, with its own show booth again. The company is part of the Sonderhoff group of companies, the system supplier for foam sealing and potting systems as well as low pressure mixing and dosing machines for foam sealing, gluing and potting applications.

Since 2009, Sonderhoff (Suzhou) is successfully distributing the group's entire product portfolio in China and serves as a reliable contract manufacturer for the sealing, gluing and potting of component parts. The application of Fermapor® K31 polyurethane foam sealings by using a DM 403 mixing and dosing machine will be shown on site at the trade fair.

Polyurethane based Fermadur® systems for transparent potting and encapsulation of electronic components will also be part of the exhibition.

Sonderhoff offers a wide range of potting and foam sealing systems which can be used in a multitude of industries, for instance, enclosures, electronics, lighting, automotive, air conditioning, filters, photovoltaics, packaging and home appliances. Sonderhoff's low pressure mixing and dosing machines from the DM 40x series apply the liquid sealing material directly onto the part where the curing process takes place. Foam sealing systems Fermapor® K31 polyurethane based and Fermasil® silicone based provide ideal protection against humidity, dust, chemicals, oil, grease and the ingress of other media. All Sonderhoff products are developed according to the customers' individual demands and according to current industry standards (UL, NEMA, ATEX) and ingress-protection classes.

Polyurethane potting for electronic appliances and lighting

Fermadur®, Sonderhoff's brand for two-component, room-temperature crosslinking potting systems, is used within the electrical and solar industry in various applications, from potting of relays, circuit boards, transformers or sensors to encapsulating LEDs and solar cells. The potting systems from Sonderhoff fulfil the industries' requirements with regard to mechanical stability, temperature, aging and weather resistance. The fluidity, reactivity, colour and hardness of Fermadur® polyurethane potting systems can be adjusted according to the customers' demands. From hard to soft and even gel-like – everything is possible. Using FIP (foamed-in-place) technology, the potting material is applied bubble-free onto the part by the mixing head of Sonderhoff's mixing and dosing machine. After a short curing time, the part can be further processed.



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Great variety of potting systems, even under difficult conditions

Fermadur® potting systems are used transparent or translucent (opaque) for optically appealing applications such as LEDs. Potted LEDs show a greater tightness than transparent plastic coverings. Ingress protection ratings of up to IP67 can be achieved and make outdoor and underwater applications possible. Also in the product portfolio: Flame-retarding Fermadur® products – e. g. for the illumination of tunnels – meet UL94 V-0 standards. In hazardous areas like in the mining industry, it is necessary that the lighting is explosion protected. Sonderhoff's potting material contributes to achieving ATEX Directive 94/9/EC.

An additional advantage of Fermadur® is its “self-healing effect”. Due to its flow characteristics, the material reseals thin scratches in the potting layer over time. Thus, the surface of transparent LED potting is always scratch-free and translucent, whereas plastic coverings stay damaged.

In China, Sonderhoff Suzhou finds a high demand for this automated application process which for decades has been the standard procedure within the electronics, packaging and lighting industry.

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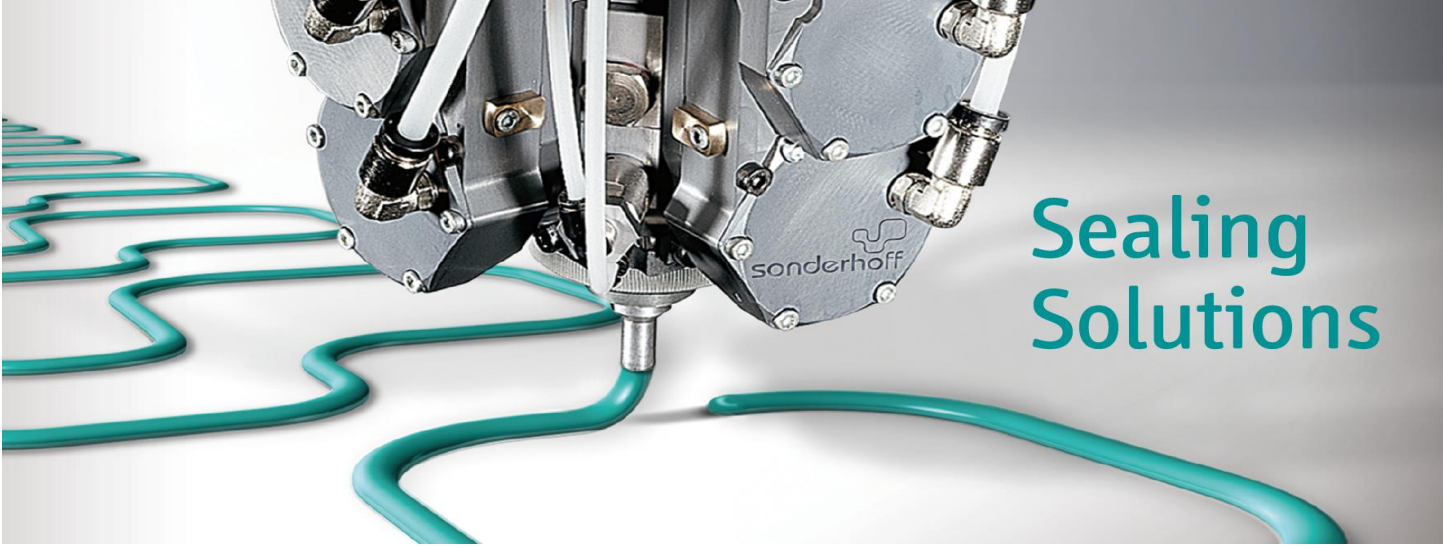
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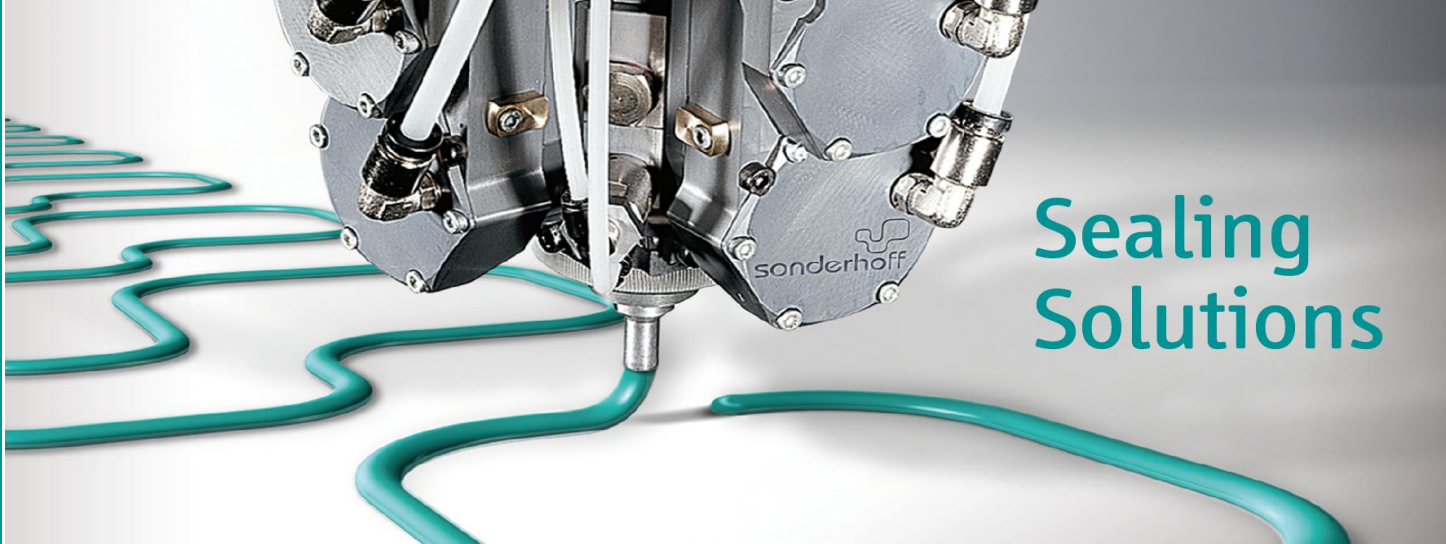
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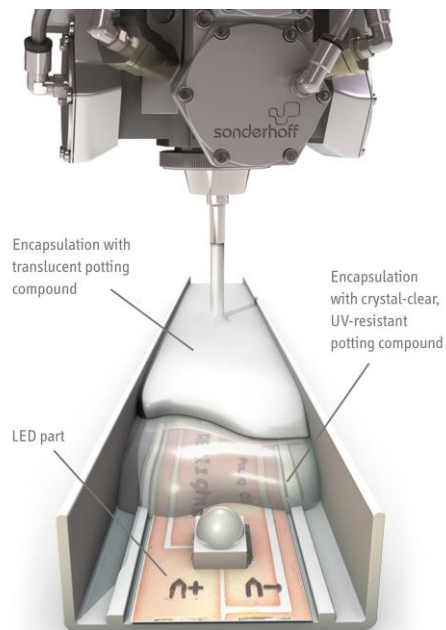
Mixing and Dosing machine DM 403 from Sonderhoff Engineering



Potting systems Fermadur® are used transparent or opaque for optically appealing LED applications.



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Two layers' casting application with transparent and opaque potting systems Fermadur®

Company Portrait

The **Sonderhoff group of companies** with its headquarters in Cologne / Germany is the leading system supplier and manufacturer of polymer sealing, gluing and potting formulations, dispensing machines and automation concepts as well as for contract gasket application services.

The Sonderhoff System combines chemical and technical competence with creative engineering know-how in the fields of mixing and dosing of sealing material and process engineering provided with a comprehensive service entirely focused on satisfied customers.

The sealing products from Sonderhoff are used for foam gasket, gluing and potting applications of various industrial components, for instance, from the switch board enclosure, electronics, automotive, air condition, filter, photovoltaic, packaging or household appliance industry.

Sonderhoff Chemicals GmbH (Cologne / Germany) develops, produces and distributes worldwide polymer sealing, gluing and potting systems on polyurethane, silicon and PVC basis. Their performance is based on the experience of more than thousand formulations. The sealing material is applied onto



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structural components and modules of OEMs and industrial suppliers by the FIPFG / FIP (Formed-In-Place Foam Gasket / Formed-In-Place) technology.

Sonderhoff Engineering GmbH in Hörbranz / Austria develops and distributes all over the world low pressure metering systems, from stand-alone dispensing machines to automation concepts according to customers' specifications for fully automated production lines of foam sealing, gluing and potting.

Sonderhoff Services GmbH (Cologne / Germany) and **Sonderhoff Polymer-Services Austria GmbH** (Dornbirn / Austria) have positioned themselves as toll manufacturers for foam gasket, gluing and potting applications with the highest precision. Their services comprehend individual sampling of prototypes as well as sealing, gluing and encapsulation of parts, from pilot application processes and small batches up to serial production for OEMs and industrial suppliers in Germany, Switzerland and Austria. Partner companies undertake the contract manufacturing of foam gasket, gluing and potting for the customers in Great Britain, Spain, Poland, India, Thailand, Japan, Korea and Brazil.

The **affiliates of the Sonderhoff group of companies in Italy, the U.S.A and China** offer the complete range of sales, technical and contract gasket application services to the OEMs in these countries as well as production and sales of chemicals for the sealing formulations and the distribution of dispensing machines from Sonderhoff.