



# Sealing Solutions

## **One-Stop Shop for Formed In-Place Technology at Chinaplas 2016**

Sonderhoff (Suzhou) Sealing Systems Co. Ltd., part of the worldwide active Sonderhoff group of companies with their headquarter in Cologne/Germany, will exhibit at Chinaplas 2016 the complete product range of the group. At the booth F43 in hall E1 Sonderhoff demonstrates live the advantages of the Formed In-Place (FIP) dispensing technology by means of its low pressure mixing and dosing system DM 402/403. They provide 2-components foam seal, adhesives and potting products based on polyurethane, silicone or PVC for foam sealing, gluing and potting of industrial parts from many different fields. The customers will be advised by Sonderhoff's experts which production solution would suite their requirements best, a tailor-made automation concept with own dispensing systems or contract manufacturing at Sonderhoff's location in Suzhou.

Since Sonderhoff's market start in China beginning of 2009 their business developed very well. Sonderhoff (Suzhou) Sealing Systems is responsible for the exclusive sales and distribution of all products of Sonderhoff in China. In order to become more independent from imports, polyurethane material production will start at their new, greater location in the Singapore Industrial Park (SIP) in Suzhou at spring this year. The new material production from Sonderhoff in China and the new machines for expanding the contract manufacturing of Chinese customers' parts is an investment in the future for the company's further growth in China.

At the new location contract manufacturing services for foam gasket, gluing and potting applications is also available for customers who do not have their own dispensing machines. They are offered individual sampling of prototypes, as well as pilot application processes or small batches up to serial production.

At the Chinaplas Sonderhoff will focus especially on the advantages of the Formed In-Place (Foam) Gasket dispensing technology for foam sealing, gluing and potting which has become increasingly popular in China:

- automated process for precise dispensing of 2D or 3D components in a great variety of shapes using linear and/or 6-axis handling robots,
- adaptable to different production processes; high efficiency, especially in large quantities,
- potential cost savings because raw materials can be utilized up to almost 100% and less personnel through a higher degree of automation,
- foam sealing accurate to the parts' contour with consistently high quality,
- also suitable for the component application of 2-component adhesives or potting material.

Sonderhoff is a one-stop shop for the plastics and metal processing companies. They have the choice of more than 1,000 material formulations for various applications, for instance, switch board enclosures, electronics, automotive, air condition, filters, lighting, photovoltaic, packaging or household appliances. They can rely on the corresponding dispensing systems from Sonderhoff for the automated application on industrial parts as well as its process know-how, multi-patented knowledge and 55 years of our experience. In accordance with it, the Sonderhoff System combines



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chemical and technical competence with creative engineering know-how and a comprehensive service.

The 2-/multi-component dispensing systems DM 402/403/DM404 are very accurate and low in maintenance. They are available from stand-alone mixing and dosing machines or dispensing cells to tailor-made automation concepts for fully automated production lines of foam sealing, gluing and potting. The systems are specially designed for precise processing of fast curing as well as liquid, medium to high viscose media such as polyurethane, silicone, epoxy resins and other polymer reaction substances.

For the sealing of lighting housings, automotive parts, electrical enclosures, industrial filters and others the polyurethane foam seal systems FERMAPOR®K31 from Sonderhoff are distinguished by:

- resistance to environmental effects such moisture, dust and temperature (-40°C to +100°C),
- protection classes up to IP68 / NEMA 12,
- a low water absorption and flame retardancy up to UL-94 HF-1,
- easy compensation of large part tolerances,
- good adhesion to different types of surfaces,
- tack-free time of 2-20 min. at room temperature and a cost-efficient manufacturing process with FIPFG dosing technology.

The polyurethane potting systems FERMADUR®, available transparent, opaque or in different colors, are distinguished by:

- resistance to environmental effects such moisture, dust and temperature (-40°C to +100°C),
- protection classes up to IP69 / NEMA 4 or flame retardancy up to UL-94 V-0,
- good thermal conductivity and dielectric properties,
- good adhesion to different types of surfaces,
- flow ability, reactivity, hardness classification, as well as thin fluid to a thick paste viscosity,
- low shrinkage, low surface tension and high impact strength and available

The polyurethane potting systems FERMADUR® are applied in various application areas, from surface coating and protection against environmental effects, to encapsulating electronic components, e.g. the potting of automotive connector plugs, relays, transformers, condensers, sensors and others.

In a nut shell, Sonderhoff (Suzhou) Sealing Systems Co. Ltd has established itself in the Chinese market as a specialist for automated 2-/multi-component mixing and dosing systems for foam sealing, gluing and potting and as a manufacturer of these materials, reliable for individual solutions according to the customers' requirements. The team of specialists is prepared for technical services, machine maintenance, spare parts supply for existing machines as well as training programs for the customers.

*Characters: 5705 (incl. spaces, not including the article heading)*

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## **Press photos:**



New location of Sonderhoff (Suzhou) Sealing Systems Co. Ltd.  
in the Suzhou Industrial Park, 215126 Suzhou



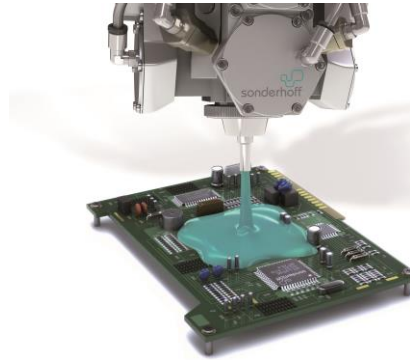
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Pressemittellung

Press Release



2-Component Formed In-Place Foam Gasketing with Fermapor® K31 polyurethane foam sealing



2-Component Formed In-Place Casting with polyurethane potting systems FERMADUR®



New Mixing and Dosing System DM 402/403 for foam sealing, gluing and potting



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## Company Profile

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 and contract manufacturing.

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 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, Singapore, 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 material systems and the distribution of dispensing machines from Sonderhoff.