

One-stop shop for formed in-place technology

Sonderhoff (Suzhou) Sealing Systems to exhibit at Chinaplas 2016

Sonderhoff (Suzhou) Sealing Systems Co. Ltd., part of the worldwide active Sonderhoff group of companies with headquarters in Cologne, Germany, will exhibit the complete product range of the group at Chinaplas from 25–28 April 2016 in Shanghai, China. At stand F43 in hall E1, the company will demonstrate 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 two-component foam seals, adhesives and potting products based on polyurethane, silicone or PVC for industrial parts from many different fields. At the trade show, customers will be advised by Sonderhoff's experts which production solution would suit their requirements best—a tailor-made automation concept with own dispensing systems or contract manufacturing at the company's location in Suzhou, China.

Sonderhoff (Suzhou) Sealing Systems Co. Ltd. is responsible for the exclusive sales and distribution of all products of the Sonderhoff group of companies in China. Since its market start in China at the beginning of 2009 the business has developed very well. In order to become more independent from imports, polyurethane material production will start at the company's new, greater location in the Suzhou Industrial Park (SIP) in 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 gasketing, gluing and potting applications are 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 especially highlight the advantages of the formed in-place

- automated process for precise dispensing of 2D or 3D components in a great variety of shapes using linear and/or six-axis handling robots,
- adaptable to different production processes; high efficiency, especially in large quantities,
- potential cost savings because raw materials can be utilised 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 two-component adhesives or potting material.

Sonderhoff (Suzhou) Sealing Systems is a one-stop shop for plastics and metal processing companies, offering a choice of more than 1,000 material formulations for various applications, for instance, switch board enclosures, electronics, automotive,

(foam) gasket (FIPFG) dispensing technology for foam sealing, gluing and potting, which has become increasingly popular in China:



The new location of Sonderhoff (Suzhou) Sealing Systems in the Suzhou Industrial Park



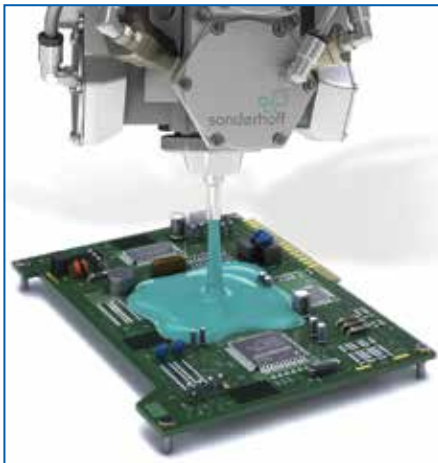
Two-component formed in-place foam gasketing with Fermapor K31 PU foam sealing

Florian Kampf
 f.kampf@sonderhoff.com
 Senior Manager Marketing/PR
 Sonderhoff Holding GmbH, Cologne, Germany

air condition, filters, lighting, photovoltaic, packaging or household appliances. The company can rely on the corresponding dispensing systems from Sonderhoff for the automated application on industrial parts as well as its process know-how and 55 years of experience.

The two-/multi-component dispensing systems **DM 402/403/DM404** are very accurate and low in maintenance. They are

Two-component FIP casting with Fermadur PU potting systems



available beginning 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 dispensing systems are specially designed for the 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 offered, which are characterised by:

- resistance to environmental effects such as 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,



The new mixing and dosing system DM 402/403 for foam sealing, gluing and potting

- 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** 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. Fermadur systems are available transparent, opaque or in different colours and are characterised by:

- resistance to environmental effects such as 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.

In a nut shell, Sonderhoff (Suzhou) Sealing Systems has established itself in the Chinese market as a specialist for automated two-/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 company's team of specialists is prepared for technical services, machine maintenance, spare parts supply for existing machines, as well as training programmes for customers. ■



Seeing polyurethanes with different eyes