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Sonderhoff Suzhou to exhibit at Chinaplas 2014

Sonderhoff (Suzhou) Sealing Systems Co., Ltd. will exhibit at the Chinaplas, Asia's biggest plastics and rubber trade fair, held from 23 - 26 April 2014 in Shanghai. The company is part of the Sonderhoff group of companies, a 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 distributing the group's entire product portfolio in China and serves as a 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.



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

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. The company'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 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, says the manufacturer.

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. According to Sonderhoff, its potting systems fulfil the industries' requirements with regard to

mechanical stability, temperature, ageing 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. 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.

Great variety of potting systems

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.

Sonderhoff Suzhou at Chinaplas:

hall E1, stand J21