



# Sealing Solutions

## New switch cabinet seal from Sonderhoff fulfils UL 94 HF-1

The latest development from Sonderhoff Chemicals, the flameproof polyurethane foam seal Fermapor® K31-A-45C4-2-UL-FR, complies with US fire protection standard UL 94 HF-1. The seal also has a UL listing for US testing standard UL 50E for switch cabinets and electronic housings in non-explosion-proof areas, in addition to UL 508, the US specification for electric switchgear safety.

As the independent organisation "Underwriter Laboratories" recently confirmed to Sonderhoff, the new polyurethane foam seal Fermapor® K31-A-45C4-2-UL-FR passed the testing criteria for UL 94 HF-1 for fire protection and has been registered as "UL-recognised". This listing can be seen on the UL website [www.ul.com/database](http://www.ul.com/database).

During single part tests for the UL 94 HF-1, the property profile for the new polyurethane foam seal was investigated under the application conditions specified by the UL. The flameproof Fermapor® K31 foam seal can therefore be used for the sealing of switch cabinets and electronic housings made of metal or plastic in application locations where the stringent US fire protection regulations apply.

Fermapor® K31-A-45C4-2-UL-FR, with its "HF-1" UL class, achieved the highest fire protection class for polyurethane foams. The polyurethane foam seal from Sonderhoff is therefore classified as self-extinguishing without burning drips, which could otherwise cause their own fire, in accordance with UL94 HF-1.

The UL 94, a test specification for the assessment of fire properties in polymer materials is one of the most important requirements for the sales of electrical appliances and other electronic applications in the USA, Canada and Mexico.

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## Press photos:



## Company description:

The **Sonderhoff consortium**, with its headquarters in Cologne, is a system supplier for polymer seals, adhesive and casting solutions on the basis of polyurethane, silicon and PVC, for plant engineering and job order production in the sectors of seals, adhesives and castings.

The Sonderhoff system combines chemical and technical expertise with creative engineering solutions in the sectors of mixing and dosing in addition to process engineering combined with a range of services which only has one aim: satisfied customers.



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The sealing and casting products from Sonderhoff are used in an extremely wide range of industrial applications for the caulking and sealing of components in the control cabinet, electronics, illumination, automobile, air conditioning, filtering, photovoltaic, packaging and household goods industries.

**Sonderhoff Chemicals GmbH** in Cologne develops and produces polymer seals, adhesive and casting systems on a polyurethane, silicon or PVC basis and sells these worldwide. The company can use the experience gained in more than 1000 formulations. The seal material is applied to or in the components of industrial clients from a wide range of application sectors with the help of FIPFG- / FIP- (Formed-In-Place Foam Gasketing / Formed-In-Place) technology.

**Sonderhoff Engineering GmbH** in Hörbranz, Austria, develops and sells mixing and dosing equipment for low-pressure processes and for automation concepts according to customer specifications ranging from stand-alone facilities up to a fully automatic production line for sealing foam, adhesion and casting worldwide.

**Sonderhoff Services GmbH** (Cologne) and **Sonderhoff Polymer-Services Austria GmbH** (Dornbirn, Austria) have positioned themselves well nationwide as a contract supplier for sealing foams, adhesives and castings at the highest precision. They offer their services for sampling of prototypes using zero and minor series right up to series production at production scale of seal applications on components and system components for industrial clients in Germany, Austria and Switzerland. Partner companies take over contract foaming and casting for Sonderhoff customers in Great Britain, Spain, Poland, India, Thailand, Japan, Korea and Brazil.

The **affiliate companies of the Sonderhoff consortium** in **Italy**, **the USA** and **China** offer industrial partners and OEMs from different application branches in these countries a wide range of services: contract foaming and casting, technical services, consultation and training in addition to production and sales of chemical formulations for the sealing material, and sales of mixing and dosing units made by Sonderhoff.