

SONDERHOFF SYSTEM SOLUTIONS

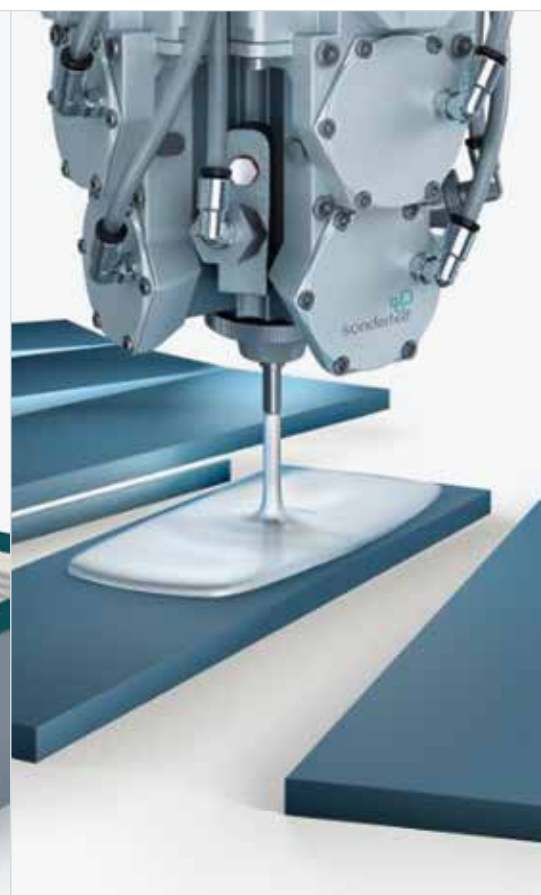
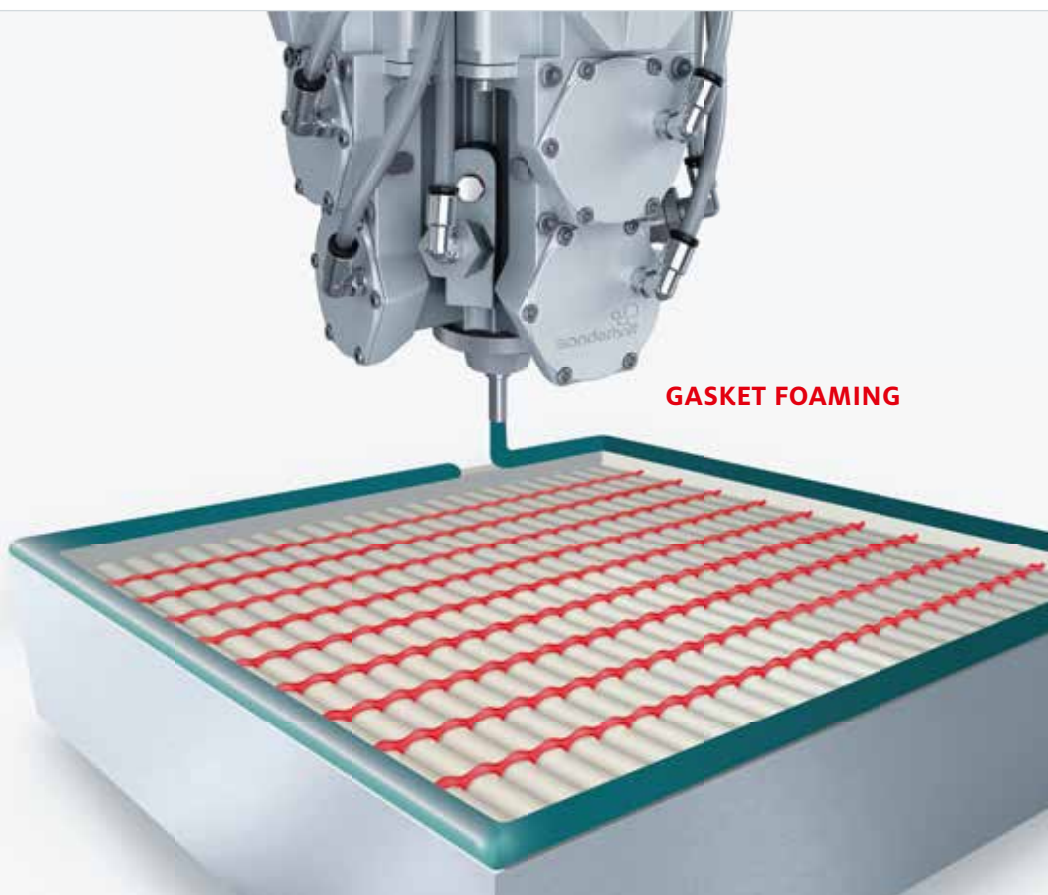
Material systems, dosing machines and contract manufacturing for individual solutions for automated sealing, bonding and potting



Ensure the success of your products

Effective protection against the elements – tailored to your individual requirements

The quality of a product depends to a significant extent on the reliability of its installed components. Well-known manufacturers from high-tech industries all over the world therefore protect their components with the highly reliable products from Henkel's Sonderhoff technology portfolio for automated gasket foaming, bonding and potting. We develop tailored 2-component material systems for your components according to your individual requirements. They provide the perfect protection against external influences such as water, dust and dirt, are resistant to temperature and chemicals and also help to attenuate undesirable vibrations or noises. Whatever the geometries, materials and critical requirements of your components, we will guarantee your optimum sealing, bonding and potting solution.



Comprehensive problem-



Dirt & dust



Wind & weather



Humidity



Heat



Cold



BONDING



POTTING

-solving skills

S3 stands for perfectly coordinated solutions through the optimal interplay of material, machine and contract manufacturing

The success of Henkel's Sonderhoff System Solutions (S3) technology portfolio is based on the unique combination of individual material systems, customer-specific machines (equipment) and efficient contract manufacturing (subcontracting). We combine these products and services in such a way that you receive the optimum solution for your requirements profile from us as a single source. For this purpose we develop and manufacture the application-specific chemistry and offer the dosing technology which has been adapted to different customer processes.

As an OEM or supplier, you can rely on us, your process experts! We provide application-related advice on the selection of the 2-component material systems and the appropriate configuration of the dosing system for your application. Our automation concepts, which are tailored to your specific requirements, ensure optimal integration into your production process – from the stand-alone machine to the fully automated production line.

In addition, we also provide advice on business management aspects. Together with you, we consider whether "MAKE" or "BUY" or a combination of the two is the best solution for you. With the "MAKE" option, you decide in favor of in-house production using our mixing and dosing machines and material systems. Or you can select the "BUY" option and have our contract manufacturing (subcontracting) experts take care of the sealing, bonding and potting of your components. This enables you to concentrate even more intensely on your core business by taking advantage of our know-how. This service also includes logistics concepts developed for you and all other accompanying services for your product realization.

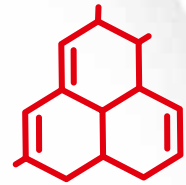
The products and services of Henkel's S3 portfolio are available to you globally – from the individual to the combined system solutions.



Flexibility & Precision



EQUIPMENT



MATERIALS



SUBCONTRACTING



You enjoy the benefits over the entire life cycle of your products

Customer focus beyond the technical application

The full potential of Henkel's S3 portfolio is revealed when you take a close look at the entire life cycle of your products. We support you with application technology advice – from the design phase of the components (product design), through the fully automated material application with FIP(FG) technology (Formed-In-Place-(Foam-Gasket), to manufacturing and logistics concepts and services over the entire life cycle of your products. You benefit from our long-standing wealth of experience and knowledge of different production processes, market specifics and future trends.

Ideally, our work should start at the evaluation stage of your component development, so that the foam seal, adhesive or potting is adequately considered in the design of your product. We test different material systems in our laboratory and modify them according to your requirements profile. We then carry out samplings of your prototype and pre-production items under series conditions on our dosing machines. We are your single-source system provider for materials, machines and contract manufacturing, especially during the start-up phase of your production and throughout the entire product life cycle. Our technical customer service supports you in your ongoing production operations by precisely matching our machines and material systems to each other in order to ensure the process-stable application of material to your components, in the event of a change of materials or for fault analysis in the case of process malfunctions.

In the series production phase we supply you with spare parts for the dosing systems for maintenance and servicing. With our contract manufacturing service, we relieve the pressure on you in the event of an unexpected increase in production and take over parts of your production. We will also provide you with advice and support at the end of your product's life cycle. When the market demand for discontinued product ranges falls, we take over these components in the form of contract manufacturing. In the event that you no longer have any use for a dosing machine, we will also buy back your used machine.

Together, we ensure the reliable fulfillment of your specific requirements and various targets across all functions: holistic process-reliable component processing, the optimum sealing or bonding of your products, as well as saving of time and money over the entire product life cycle.

From a single source



Advice on product design, manufacturing and logistics concepts
Make or buy decision

Taking back of used machines
Conversion of customers' machines for new projects
Production of smaller quantities required





**Innovation
& Design**



**Development
& Validation**

Near-series production conditions for product and process evaluation
Production of pre-series parts



**Phase-out
& Sale**



**Production
& Logistics**

Reliable procurement of:

- Chemistry
- Spare parts
- Service support

Series, emergency and overhang manufacturing



Tailored material systems for maximum protection

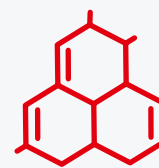
We carry out developments individually for your specific requirements

Process technologies	Gasket foaming		Potting	Bonding
Application	Continuous circumferential sealing, damage-free, repeated opening and closing of the component, e.g. for maintenance, thanks to the resilience of the foam structure		Potting, sealing or coating of components with compact potting for protection against external influences	Permanent bonding of different substrates with various strengths, elasticities and properties
Brand name	FERMAPOR K31	FERMASIL	FERMADUR	FERMAGLUE
Chemical basis	Polyurethane	Silicone	Polyurethane	Polyurethane
Appearance	White, gray or black, other colors on request	White, gray or black, other colors on request	Black or gray, other colors on request (also transparent)	Gray to black
Width / height ratio	1.5 : 1 to 3.0 : 1	1.5 : 1 to 3.0 : 1	./.	./.
Viscosity	900 to 200,000 mPas	5,000 to 250,000 mPas	300 to 200,000 mPas	300 to 200,000 mPas
Hardness	15 Shore 00 to 40 Shore A	25 Shore 00 to 40 Shore A	Entire Shore A range up to 80 Shore D, also as a gel	30 to 80 Shore D
Density	From 0.1 to 0.6 g/cm ³	From 0.2 to 0.7 g/cm ³	From 0.8 to 1.7 g/cm ³	From 1.40 to 1.55 g/cm ³
Ultimate tensile strength	Up to 2 MPa	Up to 1.0 MPa	Up to 12 MPa	From 2 to approx. 20 MPa
Elongation at break	Up to 400%	Up to 200%	Up to 400%	From 40 to 200%
Compressive strength (25% compression)	From 5 to 200 kPa	from 20 to 300 kPa	./.	./.
Resilience / data protection register (according to test conditions)	≥ 95% / ≤ 5% (Data Protection Register)	≥ 97% / ≤ 3% (Data Protection Register)	./.	./.
Heat resistance	From -40 to +80 °C (briefly up to +160 °C)	From -60 to +180 °C (briefly up to +350 °C)	From -40 to +130 °C (briefly up to +160 °C)	From -40 to +130 °C (briefly up to +160 °C)
Flame retardance	Up to UL 94 V-2	Up to UL 94 V-0 possible	UL 94 V-0 (also possible with a 1.5 mm layer thickness)	Up to UL 94 V-0 possible
Water absorption (according to test conditions)	≥ 3.5%	≤ 3.5%	≤ 3.0%	Not determined
Type of protection (can be achieved with suitable component design)	Up to IP 68 or NEMA 12	Up to IP 69K or NEMA 4-6p	Up to IP 68 or NEMA 12	Not determined
Optional properties	E.g. UL 50E, sliding properties, low fogging, low VOC emission, suitability for food packagings (FDA-compliant), adjustable to be microbially inert	E.g. UL 50E, UV-stable, good chemical resistance, ATEX, suitability for food packagings	e.g. light-fastness, good thermal conductivity, for rotational molding, electrically dissipative, hydrophobized, with multistage flow behavior, abrasion-resistant, adhesion-reinforced	Good resistance to many chemicals and solvents

Customer-specific developo

Based on our more than 1,000 self-developed recipes – known under the brand names of Sonderhoff FERMAPOR K31, FERMADUR, FERMASIL – and Henkel’s almost limitless adhesives portfolio, we are sure to find a material system solution with which you can ideally satisfy your component requirements.

We fundamentally distinguish between three different process technologies – gasket foaming, potting and bonding. For this purpose you can select from our two-component material systems, which mainly consist of polyurethane or silicone, and which we match exactly to the concrete specifications of your components.



MATERIALS

SPECIFIC PRODUCT PROPERTIES FOR DEDICATED FIELDS OF APPLICATION:

Fast curing	Flame retardance	Microbially inert protection	Approved for food packaging (FDA-compliant)	Low emissions
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Components

From manual to fully automatic – fully in line with your requirements

Customer-specific mixing and dosing systems
for accurate and efficient dosing processes

Our individual mechanical engineering concepts range from the mixing and dosing system, material preparation and process control, through mixing heads with different equipment for processing 2 to 4 material components, to 3-axis linear robots and the use of 6-axis robots for fully automatic dosing systems. In all solutions, our main focus is on extremely reliable plant engineering, minimized maintenance times and consistent dosing quality.

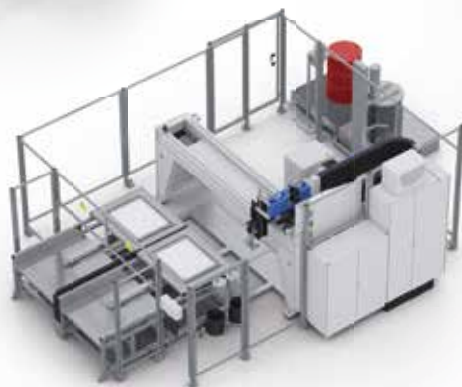
Our high-precision dosing systems are suitable for a wide range of component sizes and geometries. With them, application rates of 2 to 100 g/s can be achieved. For particularly small components with very narrow contour lines, dosing quantities of 0.1 to 2 g/s are possible for sealing foams and 0.05 to 2 g/s for bonding and potting applications.

An important success factor for the efficiency of the overall solution is its optimal integration into your manufacturing processes. To achieve this, we offer numerous configuration and equipment options for manual, semi-automatic or fully automatic production systems.

COMPACT DOSING CELLS READY FOR IMMEDIATE USE



SEMI-AUTOMATIC PLANT SOLUTIONS



FULLY AUTOMATED SYSTEMS WITH 6-AXIS ROBOTS



Modular, flexible, efficient



EQUIPMENT



nt

Contract manufacturing – an option you can absolutely count on

Take full advantage of our efficient manufacturing capabilities

Upon request, we can take over the gasket foaming, bonding and potting of your components with our mixing and dosing systems. In doing so, we ensure the manufacturing process that is tailored to your needs in an ideal manner: from the ACTUAL analysis of your requirements, through the prototype sampling and component solution, to automation, production and quality control.

Take advantage of our know-how and our many years of experience as your expert supplier with manufacturing at the highest level – while deriving many and varied business benefits from it. Whether it's for permanent contract manufacturing, to accelerate the transition from prototype to series production, to scale your entire production logistics as required or simply for temporary use in the start-up phase (ramp-up) or the phase-out of your production.

We currently have over 30 machines in operation for you worldwide. Please contact us for a specific evaluation of your individual situation.

MANUFACTURING



QUALITY CONTROL



LOGISTICS (ON-DEMAND)



Simply have it manufact



SUBCONTRACTING



ured

The right solution for every industry

With expertise and experience from a wide range of applications

True to our maxim of “Understanding requirements, developing together, implementing and accompanying in a sustainable manner”, we create technical system solutions for customer-specific requirements from the most demanding industries. With the knowledge acquired during this process and the ingenuity of the entire company, we can certainly also solve your task in line with market requirements. In doing so, we always keep the big picture in focus for you: the added value for your product and your company.



Automotive_16



Electromobility
infrastructure_18



Photovoltaics and solar
thermal energy_19



Kitchen and household
appliances_20



Air conditioning and
ventilation technology_22



Air filters_24



Cash machines_26



Respiratory protection masks_27



Switch cabinets_28



Electronics and sensor technology_30



Luminaires and lighting technology_32



Small electronic devices_34



Urban mobility_35



Packagings_36



Loudspeakers_37

The perfect protection for modern mobility

Precise sealing for more automotive safety and comfort

Fast, safe and comfortable passenger transportation is an achievement of modern times that no one would like to do without. The market for this indispensable mobility is undergoing a dynamic transformation process worldwide, driven by new drive technologies, self-driving cars and artificial intelligence, to which all manufacturers have to adapt. From automobiles, airplanes, buses and trains, all the way to innovative two-wheeled solutions.

The only parties who can still be successful in these highly competitive markets are those who manufacture according to the highest quality and safety standards, who can react quickly and flexibly to changes and who implement both of the above aspects accordingly with maximum efficiency. Henkel's solutions offer you exactly this competitive advantage. Thanks to our unique expertise and experience from many successful applications in the areas of bodywork, electronics, the engine compartment, lighting, battery technology and interiors, we know very well what is important in your industry and which solution is suitable for your task.

Tell us your individual requirements. We look forward to being able to realize your challenges together with you in a safe and economical manner.

ELECTRONICS



Display



Ultrasonic sensor



Camera system



Control device

E-MOBILITY



EV battery housing



EV onboard charger



EV inverter



EV DC / DC inverter

Moving together

INTERIOR / EXTERIOR



Door module



Spoilers



Air Filtration



Car air filter

VEHICLE LIGHTING



Front headlights



Taillight



Stop light / CHMSL

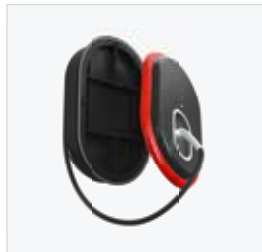
The current flows safely, whatever the weather

Reliable sealing of charging stations and charging plugs

For the sealing of wallboxes for charging electric cars or outdoor charging columns, our solutions satisfy the individual requirements of your product and its subsequent installation location. The electronics installed in the charging stations are reliably protected against water and other influences of the weather by our sealing systems. For the production of charging plugs we offer high-quality potting systems that seal the plug connections for charging cables over a long period.



EV charging station



EV wallbox



EV charging plug



Relevant to supply

Closest to the sun

Weatherproof protection for photovoltaic (PV) components

Inverters for photovoltaic systems must work safely for many years, even under extreme environmental conditions. For this reason, the highest requirements are placed on protection against enormous temperature differences, torrential rain, ice-cold water and other climatic influences. To achieve this, we provide you with a sealing solution that ensures optimal protection for the inverter, as well as application engineering advice and the matching dosing technology and process automation.



PV inverter

A wide-angle photograph of a large array of solar panels. The panels are dark blue or black with a grid of silver lines. They are arranged in rows and extend towards the horizon. The sky is a vibrant blue with scattered white clouds. The perspective is from a low angle, looking up at the panels.

As plain as day

Reliable sealing protection for more hygiene in the home

So that household appliances and kitchen fittings always remain tight

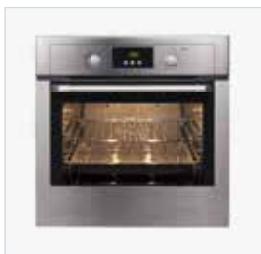
Sealing, bonding and potting systems for high-quality household appliances and “white goods” have to satisfy a wide range of requirements that make a decisive contribution to functionality and safety – and therefore customer satisfaction. Foam gaskets, for example, must be very watertight when installed, withstand a high temperature range and also be resistant to the chemical constituents of washing and cleaning products over the long term.

We offer solutions to manufacturers of kitchen appliances which are approved for contact with food and – upon request – also include a seal with a microbially inert protective function.

Whether plastic, ceran glass, rustproof stainless steel, ... no matter what material your product is made of, we tailor the recipes of our foam gasket, bonding and potting systems individually to the properties required by you.

Take advantage of this variety of solutions specifically for your state-of-the-art equipment generations. Here in particular, it will be important to explore new design paths while at the same time being able to reliably protect their sensitive “inner values”. Because only perfectly functioning electronics will deliver on the promise of maximum levels of efficiency and the practical networking of corresponding devices, thereby enabling you to successfully establish yourself in the 4.0 household market.

KITCHEN AND HOUSEHOLD APPLIANCES



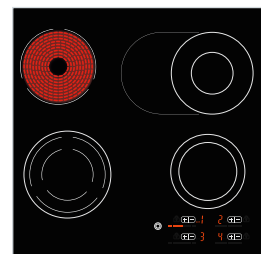
Ovens & stoves



Refrigerators & freezers



Vacuum cleaner



Ceramic hobs



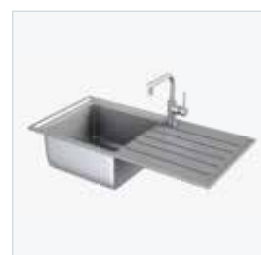
Washing machines



Dryer



Dishwashers



Rinse

Functional & clean



Without doubt a pleasant feeling

Sealing of heating, ventilation and air conditioning technology against dust and water

Compensating for extreme temperature fluctuations and ensuring a pleasant indoor climate are the basis for our personal well-being. The reliable control of heating, ventilation and air conditioning technology is nevertheless necessary in order to ensure the smooth operation of technical systems in research, IT infrastructure and production.

We help you to realize correspondingly high-quality product solutions. The ideal combination of a suitable material system and its precise, automated application enables you to reliably fulfill the most important technical parameters during this process: the optimum sealing of the parts and components, especially for the compensation of component tolerances, and at the same time the highest levels of resistance to the temperature differences that constantly occur.

This enables you to offer your customers exactly the levels of durability, quality and reliability that they expect from your products.

AIR CONDITIONING AND VENTILATION TECHNOLOGY



Air conditioning panel



Heat exchangers

Always warm & ventilated



So that only what should get through actually gets through

Perfect sealing and bonding of HEPA, air and industrial filters

Filters play a hidden but important role in our modern world: from classic vacuum cleaner filters in the home, through to filters for industrial plants and power stations, to high-performance filter systems that ensure cleanroom quality in laboratories and operating theaters. In order to enable filters to perform these tasks, our products ensure the optimum bonding of the filter in the frame and leakage-free sealing at the seat of the filter when it is installed, which prevents the fresh air that is drawn in from flowing past the filter.

Leading manufacturers of filter systems rely on our expertise in order to achieve the best possible filter production in each case with our foam gaskets and adhesive sealants. Irrespective of whether they are compact, pocket, cartridge or panel filters, filter cartridges, hoses or cassettes. Our material systems and their fully automated application ensure the perfect sealing, bonding or potting of the media used.

Our polyurethane material systems for HEPA, air and industrial filters are very economical and innovative. The range extends from sealing foams with a microbially inert protective function, through potting gel for cleanroom filters, to foamed adhesive sealants.

The filter adhesives with a foamed cell structure have a lower density. The amount of adhesive per filter can therefore be reduced by up to 50 percent. This makes it possible to achieve a high level of cost-effectiveness in filter production. The lower weight also ensures lighter – and therefore easier – handling of the parts. Both save money while still satisfying the requirements for high-quality filter bonding.



Industrial filtration



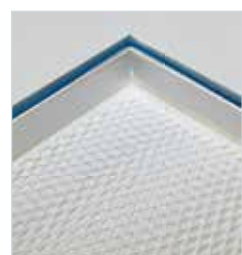
V filters



HEPA filters



Vacuum cleaner filter cartridge



Cleanroom filter

Breathe freely



For a dry cash flow

Reliable functionality of ATMs and vending machines in all climate zones

ATMs and vending machines must be built sturdy enough to protect their contents and electronics from the wind and weather, and ideally withstand willful damage and vandalism. We offer a large number of tried-and-tested solutions for the secure attachment and sealing of the relevant components.



Card slot cover



Fingerprint panel



Card slot



Lens cover

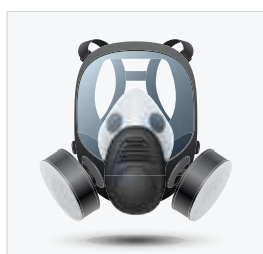


Always ideally supplied

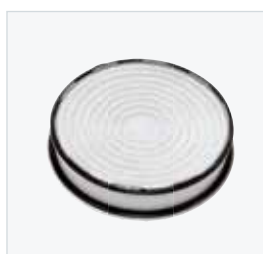
Reliable systems for real heroic deeds

Safety-relevant sealing for respiratory protection devices

Emergency responders must be able to rely 100% on respiratory protection systems that guarantee the ability to act and safety in emergencies. Our sealing systems offer this highest level of reliability for equipment, electronics and filters. Through the use of high-performance materials and their high-precision dosing.



Respiratory protection mask systems



Respiratory protection filters

Fully operational

A firefighter in full protective gear, including a yellow helmet and a blue and yellow jacket, is shown in a fire scene. The firefighter is holding a hose and has one hand raised. In the background, there is a large fire and a fire truck with the number 6 on its side.

Switch cabinet door closed and tight

Seamless sealing for indoor and outdoor switch cabinets

The lifelines of highly automated industrial production come together at a central point in switch cabinets. They contain the electrical distribution or the control and safety technology of manufacturing plants. In order to avoid production downtimes, which are always associated with high costs, their sensitive electronic contents must be protected in the best possible way against malfunctions and mechanical damage. This also includes the optimal sealing of the switch cabinets against moisture, dust and other climatic influences. This is indispensable, especially for outdoor use.

The body of the switch cabinet and its doors are sealed seamlessly in accordance with the DIN EN 61439 switchgear standard using our mixing and dosing machines with the polyurethane sealing foams from the FERMAPOR K31 product family. This reliably prevents malfunctions of the electronics caused by corrosion, for example. The foam gaskets display excellent adhesion properties with respect to the powder coatings and plastic surfaces that are commonly used. When used on stainless steel, SMC or plastics such as PP or PE, pretreatment by means of primer, plasma or thermal processes may be required.

For the safe installation of viewing glass panes in the switch cabinet doors, we offer the corresponding bonding in the manufacturing process.

In addition to their high level of impermeability and short installation and tack-free times, our material systems are known for a large number of specific properties:

- Very fast-reacting fast-cure foam gaskets for indoor and outdoor use
- High flame retardance according to UL 94 V-2
- Resilience of > 95% (DVR < 5%), tested according to ISO 1856:2018
- Very good adhesion to most powder coatings
- Protection class up to IP 68 or NEMA 12 achievable (with suitable component design)
- US test standards UL 50E in non-explosion-proof areas
- Optional adjustability of a microbially inert protection function against mold and fungal infestation

Explosion-proof switch cabinets in accordance with the European Union's ATEX directives for use in explosion-proof rooms or potentially explosive safety areas, e.g. in mining or the chemical and oil industry, are sealed with the FERMASIL temperature-resistant (up to +180 °C) silicone foams.



Switch cabinet door



Plastic electrical housing



Switch cabinet filter element



Switch cabinet door handle

Elemental protection



Electronics best protected

Highly reliable solutions for electronic components

The digitalization of industry for a 4.0-enabled environment is based primarily on the intensive use of electronics and sensor technology. Particularly suitable protection is required to ensure the long-term functioning of these sensitive components. Our high-performance material systems for gasket foaming, bonding and potting offer a wide range of properties for this purpose.

Whether electronic housings, connectors, cables, boards, relays, capacitors, transformers, sensors and other electronic assemblies – we have the right solution for every application and task. For this purpose, we offer not only the material systems, but also our mixing and dosing machines and, upon request, the takeover of parts of your production by our contract manufacturing.

The most important technical requirements for our material systems for your component solution are:

- Sealing against moisture for reliable corrosion protection
- Aging stability and heat dissipating function
- Flame-retardant according to UL 94 against partial ignition sources
- ATEX protection in potentially explosive areas of application



Sealing for the connection box of the electric motor



Potting plug



Potting of the electrical assembly



Potting of the connector module



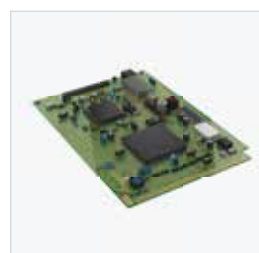
Molded foaming of cable distributors



Potting of connector pins



Molded foaming of the cable guide



Potting printed circuit board

Stable connections



Best possible luminosity due to highest level of impermeability

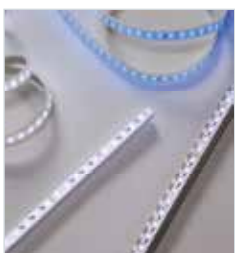
Our applications for luminaires and lighting technology

Whether lighting for streets, buildings, damp rooms or signs – our innovative systems with their perfect sealing behavior for the sealing, bonding and potting of luminaires and lighting technology make our solutions the first choice among leading luminaire manufacturers.

The LED market will continue to grow, as with the help of energy-saving LED lamps it will be possible to further reduce the overall energy consumption. High-quality light-emitting diodes are also characterized by a 50 times longer illumination time compared to light bulbs. With our material systems, you can reliably ensure this long service life. Due to the effective sealing of the LEDs with UV-stable clear potting based on polyurethane or silicone, the best possible temperature resistance and optimal heat dissipation.

In order to be able to guarantee the best possible lighting effect without damaging environmental influences, we use only the best raw materials and cooperate closely with you – from the first sampling to the release of the prototype. We therefore satisfy the highest requirements of the lighting industry:

- Silicone foam gaskets with explosion protection according to the ATEX standard
- Foam gaskets made of polyurethane according to UL 94 V-2 or silicone according to UL 94 V-0
- Silicone foam gaskets with tightness levels up to IP 69K or NEMA 4-6p (depending on the overall component design)
- Transparent potting systems with high UV stability and translucency
- PTB approval (on request)



Potting of LED lighting technology



Street lighting



Linear luminaires



Information lights



Explosion-proof luminaires

Extended range



Provides your little helpers with all-round resistance

Product solutions for small electronic devices in the workshop, household and garden

Practical small devices with cordless battery operation are becoming increasingly popular. Our sealing and insulating material systems ensure that their batteries and electronics are reliably protected against external influences. This will ensure that your customers enjoy your products for a long time.



Battery housing seal



Always at hand

Create entirely new forms of mobility

A wide range of battery housings – well sealed for rugged use

The classic forms of mobility are increasingly being supplemented by electrically operated micro-vehicles in urban areas. Both the private acquisition of e-bikes and e-scooters, as well as the various rental and sharing offers, are showing enormous levels of growth. We help you to reliably protect the essential components of your products against moisture and vibrations.



E-bike battery housing

Always ready for use

So that “closed” also means tight

Create perfect seals for lidded drums to prevent leakage or contamination

The requirements placed on modern lidded drums made of black plate, tinplate, steel and plastic are as varied as their contents. FERMAPOR K31 2-component polyurethane foams provide perfect protection against leakage or contamination and also successfully complete a drop test in accordance with UN approval. Our dosing machines enable efficient and precise material application to your drum lids at very high application speeds.



Metal barrel cover seal



Plastic drum cover seal



Hobcock cover seal



Drop test passed

Ensures undisturbed listening pleasure

Vibration-damping noise protection for sophisticated acoustics

Today, cars are concert halls on wheels due to the increasing number of speakers installed in them. In order to ensure that nothing interferes with a pleasurable listening experience, our sealing and potting solutions dampen the vibrations – and therefore also the annoying noises – that occur while driving. However, the loudspeakers installed in the door modules must also be sealed against moisture.



Loudspeaker



Very melodious

Customer-specific solutions – worldwide and for many industries

The Henkel specialists for the S3 portfolio are available to you globally

KOLO, POLAND
External Subcontracting Location

LONDON, GB
External Subcontracting Location

COLOGNE, GERMANY
Center of Expertise

ELGIN, ILLINOIS, USA
Regional Hub

RICHMOND (KANSAS CITY), USA
Regional Hub

DORNBIRN, AUSTRIA
Center of Expertise

BARCELONA, SPAIN
External Subcontracting Location

OGGIONO, ITALY
Regional Hub

INCHEON, KOREA
External Subcontracting Location

SHANGHAI, CHINA
Regional Hub

PUNE, INDIA
Regional Hub

PUNE, INDIA
External Subcontracting Location

SÃO PAULO, BRAZIL
External Subcontracting Location



Global presence

Every year, more than 300 million seals are manufactured in more than 50 countries using products from Henkel's S3 portfolio. At our "Centers of Expertise" and "Regional Hubs", the S3 specialists offer application engineering advice, e.g. on the selection of a suitable material system and the sampling of your components, as well as project management for dosing systems and automation. You will receive training from us on how to handle the FIPFG technology and we will support you with the selection of spare parts and a regular service offering. Furthermore, we will be pleased to take over parts of your production for you – from small to large series – at our subcontracting locations.

Sales staff at all other Henkel locations worldwide will also be happy to answer any questions and provide you with further information on our sealing, bonding and potting solutions. We look forward to hearing from you.



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