

# RAMPF – High-Performance Sealing Solutions for the Lighting Industry

Encompassing polyurethane and silicone foam portfolio for LED and fluorescent luminaires

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**Grafenberg, Germany, April 15, 2021. Polyurethane and silicone sealing foams from RAMPF Polymer Solutions protect LED and fluorescent luminaires against a wide range of environmental influences. The customized two-component FIPG/FIPFG systems stand for highest quality standards and maximum production speeds.**



Two-component sealing systems from RAMPF Polymer Solutions for LED and fluorescent luminaires are used in various indoor and outdoor environments.

Sealing foams extend the life and performance of LED and fluorescent luminaires in both indoor and outdoor applications. The high-performance two-component gaskets protect luminaires from the penetration of dust, humidity, water, and cleaning fluids. Furthermore, they feature excellent resistance against UV, chemicals, and high temperatures.

For the lighting industry, RAMPF Polymer Solutions offers an encompassing portfolio of FIPG/FIPFG liquid and thixotropic gaskets based on polyurethane (RAKU<sup>®</sup> PUR) and silicone (RAKU<sup>®</sup> SIL). These foams can be quickly adapted to specific customer requirements and exhibit

- > Stable and abrasive surface
- > High tensile strength
- > Very low compression set also at high temperatures
- > Low water absorption
- > Suitability for various IP requirements
- > Excellent ageing resistance
- > Short reaction time for fast handling of the parts

The foam portfolio of RAMPF Polymer Solutions also includes products for specific application areas, amongst others:

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### **RAKU<sup>®</sup> PUR 31-3194-1 – the outdoor specialist**

During rain, snow, and frost, gaskets may absorb water. Repeated freeze-thaw cycles can cause significant damage to these seals due to the negative thermal expansion (NTE) of water, in which water contracts upon heating rather than expanding. RAKU<sup>®</sup> PUR 31-3194-1 was specially developed to counteract this effect. In addition, the material features very low water absorption, stable and high-quality surface, and is used a number of indoors applications.

### **RAKU<sup>®</sup> SIL 37-1210 – the all rounder**

This silicone material was developed for harsh environmental requirements, including ATEX luminaires. These are used in hazardous environments that potentially have an explosive concentration of gas, vapor, or dust, for example painting facilities or mining. RAKU<sup>®</sup> SIL 37-1210 is also used in luminaires for livestock pens, amongst others, and exhibits very high temperature resistance, outstanding cost effectiveness (very low density), fast reaction time at room temperature, as well as high chemical and radiation resistance (e.g. Ozone, UV).

### **Material & dispensing expertise from a single source**

For maximum and long-term sealing performance, both the chemical composition of the sealing foams and their application process have to be tailored to the individual luminaire. In addition to modern laboratory facilities, the RAMPF Innovation Center at the company head office in Grafenberg, Germany, features spacious testing facilities where state-of-the-art dispensing and automation technology from sister company RAMPF Production Systems is used for sample production, system tests, and series production trials.



Albert Schmid, Business Center Director Sealing Systems at RAMPF Polymer Solutions – “Our customer-focused and progress-oriented team of experts offer holistic advice and services on material, plant, and process technology. In addition to our state-of-the-art production facility in Grafenberg, our products are also manufactured in the United States and China, and we are present all across the globe for our customers.”

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[www.rampf-group.com](http://www.rampf-group.com)



**RAMPF Polymer Solutions GmbH & Co. KG** is a leading developer and manufacturer of reactive resin systems based on polyurethane, epoxy, and silicone. The company also possesses comprehensive expertise in application technology.

The product portfolio of RAMPF Polymer Solutions includes liquid and thixotropic sealing systems, electro and engineering casting resins, edge and filter casting resins, and adhesives.

Research and development are highly prioritized: Based in Grafenberg (near Stuttgart), Germany, the technology pioneer and quality leader has laboratories and facilities for application technology within its spacious Innovation Center. Every day in the RAMPF Innovation Center, new products are developed, existing products are adapted to specific customer requirements, and a huge range of material combinations are tested.

The materials created in the laboratory are tested in the application technology department, where samples are also made for customers to further enhance product quality and reduce the time to series production. Naturally, customers also receive support during the product rollout phase and production process.

RAMPF Polymer Solutions attaches particular importance to renewable raw materials during the initial research phase. Biopolyols are developed in cooperation with sister company RAMPF Eco Solutions. The potential use of recycled polyols in the composition of new products is also closely examined.

RAMPF Polymer Solutions is a company of the international **RAMPF Group** based in Grafenberg, Germany.

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