

# High-Performance Board and Liquid Materials for First-Class Modeling Products

RAMPF at CAMX 2019 in Anaheim, CA – Booth P4

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**Wixom, MI, USA, September 19, 2019. RAMPF Group, Inc. is presenting its encompassing range of model, mold, and tool engineering materials for the automotive, marine, and aviation industries at CAMX 2019 from September 23 - 26 in Anaheim, CA – Booth P4.**

The company based in Wixom, MI, develops customized solutions that are tailored to meet the specific requirements of customers throughout the entire production chain – from prototyping, model, mold, and tool construction to production. New in the portfolio are liquid resin systems for structural and interior aerospace composites applications.

The product highlights include:

### **> RAKU<sup>®</sup> TOOL WB-0890 – Epoxy Board for Composite Manufacturing**

This brand new board has an extremely fine surface structure, which significantly reduces both finishing and the amount of sealer that has to be used. The surface finish can be transferred from the master model to the prepreg mold, so that no re-sanding of the mold is required and the service life of the prepreg molds is significantly increased. RAKU<sup>®</sup> TOOL WB-0890 is easy and quick to machine and compatible with all industry-standard paints, release agents, and epoxy prepregs. Tg is 110 °C.

### **> RAKU<sup>®</sup> TOOL WB-0950 – High Temperature Epoxy Board for Tools & Molds**

This epoxy board can be bonded in various shapes and sizes. A special RAKU<sup>®</sup> TOOL adhesive matched in hardness and color is available. RAKU<sup>®</sup> TOOL WB-0950 is heat resistant up to 200 °C, has a closed surface structure, and exhibits excellent machinability and good dimensional stability. The board is used, amongst others, for the manufacture of lay-up tools for prepregs and vacuum forming molds.

### **> RAKU<sup>®</sup> TOOL Close Contour Paste CP-6131**

Close Contour Pastes are 2-component epoxy systems that are applied to a close contour substructure by hand or using a CNC machine. Many kinds of supporting structures can be used, including RAKU<sup>®</sup> TOOL SB-0080 styling board, EPS, and cast aluminum. RAKU<sup>®</sup> TOOL CP-6131 is easy to process and apply. The production process is fast and efficient – direct tooling does not require the production of a model, and the close contour shape facilitates faster milling times. Furthermore, as with all close contour products, less material is used and less waste produced.

### **> RAKU<sup>®</sup> EI-2510 Structural Liquid Resin System**

With this resin system, RAMPF has developed a product to match the performance of toughened high Tg prepreg epoxy systems for vacuum infusion and RTM processing. RAKU<sup>®</sup> EI-2510 has a very low viscosity (200 mPas @40 °C) to allow for low-cost infrastructure and tooling while having an excellent pot life of 2

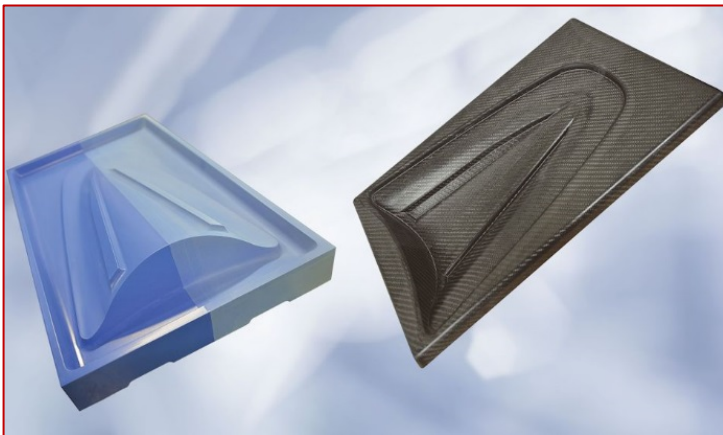
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hrs and a short cure time (2 hrs @120 °C). Fully cured, the system has a dry Tg of 210 °C and excellent hot-wet properties. The system is designed for high fracture toughness and an excellent candidate for applications that are exposed to a harsh environment and high mechanical, thermal, and vibrational loading. Applications include cascades, control surfaces, and structural components.

**> RAKU<sup>®</sup> EI-2508 FST System for Interior Applications**

This unfilled epoxy system combines excellent FST properties with the strength and performance of a toughened epoxy system. Its low viscosity and a temperature-activated cure profile allow for fast cycle times (full cure can be achieved within 15 min). The system is ideal for higher-volume aerospace components like seats (structural and non-structural), pack boards, wall and ceiling panels, overhead bins, and lavatory components.



RAMPF Group, Inc. has further expanded its product portfolio for the composite industry with its new epoxy board RAKU<sup>®</sup> TOOL WB-0890.

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RAMPF Group, Inc., based in Wixom, Michigan, is the North American subsidiary of the international RAMPF Group.

The product portfolio of RAMPF Group, Inc. is comprised of:

- > mixing and dispensing systems for the reliable processing of polymers
- > two-component polymer (or synthetic) systems based on polyurethane, epoxy, and silicone
- > modeling and mold engineering materials, in particular for the automotive, marine, and aviation industries
- > machine bases, machine frames, and other structural components made from mineral casting (polymer concrete)

The international RAMPF Group stands for engineering and chemical solutions and caters to the economic and ecological needs of industry. The Group secures its presence on the international markets with approx. 900 employees and six core competencies:

- > **RAMPF Machine Systems** based in Wangen (Göppingen), Germany, develops and produces multi-axis positioning and moving systems, trunk machines, and basic machines based on high-precision machine beds and machine bed components made from alternative materials.
- > **RAMPF Production Systems** based in Zimmern o. R., Germany, develops and produces mixing and dispensing systems for bonding, sealing, foaming, and casting a wide variety of materials. The company also offers a wide range of automation skills relating to all aspects of process engineering.
- > **RAMPF Composite Solutions** based in Burlington, Ontario, Canada, is a holistic composites supplier to companies in the aerospace and medical industries. The company offers a complete suite of services including composite part design and engineering, metal-to-composite conversion engineering, and composite manufacturing to very tight tolerances.
- > **RAMPF Eco Solutions** based in Pirmasens, Germany, develops chemical solutions for the manufacture of high-quality alternative polyols from PU and PET waste materials. This expertise is also put to use in the planning and construction of customer-specific facilities for manufacturing polyols.
- > **RAMPF Polymer Solutions** based in Grafenberg, Germany, develops and produces reactive resin systems based on polyurethane, epoxy, and silicone. Its product portfolio includes liquid and thixotropic sealing systems, electro and engineering casting resins, edge and filter casting resins, and adhesives.
- > **RAMPF Tooling Solutions** based in Grafenberg, Germany, develops and produces board and liquid materials for cutting-edge modeling and mold engineering. The range of skills includes made-to-measure services and products such as pastes, large-volume and full-size castings for Close Contour models, and prototyping systems.

RAMPF has subsidiaries in Germany, the U.S., Canada, Japan, and China.

All RAMPF companies are united under a holding company – **RAMPF Holding GmbH & Co. KG** – based in Grafenberg, Germany.

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