# Press Release

## formnext 2023: ALTANA AG presents over ten new resin-based Cubic Ink® materials for 3D printing

- **Manufacturer-independent and system-open product range expanded by first high-performance material for SLA applications**
- **Innovative new products for mold production, for example in audiology, and the production of ESD-compliant materials**
- **Visit us at formnext: Hall 12.1, Booth F99**

**Wesel, October 31, 2023** – Giving shape to ideas by turning product designs into reality is now achievable with the new and enhanced resin-based Cubic Ink® 3D printing materials. Among them is the first material for SLA applications: **Cubic Ink® High Performance 2-1400 VP**. These innovative products will be presented at this year's formnext, the premier European 3D printing trade fair for additive manufacturing, which will take place in Frankfurt am Main from November 7 to 10, 2023.

With the new products, specialty chemicals group ALTANA is significantly extending its Cubic Ink® 3D printing material family for high-performance resins. The expansion positions ALTANA as a supplier of manufacturer-independent, system-open materials suitable for DLP, LCD, and SLA applications, as well as inks for material jetting. This development unlocks entirely new opportunities for users, particularly in the automotive and aerospace sectors. It is also a boon for the medical technology field, encompassing audiology, dental medicine, and orthopedics, enhancing their product manufacturing processes.

“ALTANA is focusing its Cubic Ink® family of 3D printing materials on system-open and industry-applicable additive manufacturing across DLP, LCD, and SLA technologies. Our customers reap the rewards of our extensive solution expertise in pioneering high-performance materials,” explains Dr. Max Röttger, Head of Cubic Ink®. “Furthermore, we offer dedicated support to our customers in the development and formulation of high-performance inkjet inks for material jetting."

### Innovative new products at formnext

Among the extensive lineup of over ten Cubic Ink® products showcased at formnext, certain material series stand out due to their exceptional performance and properties.

Notable among these highlights are the two **Cubic Ink® series, Mold 210 VP and 601 VP**, designed for resin printing. These series offer a multitude of advantages regarding both the printing process and post-processing stages. The materials are used, for example, in the manufacture of hearing aids. Their low viscosity allows for rapid printing, and the printed molds can be effectively cleaned using common washing solvents, such as IPA. Furthermore, after approximately ten minutes of UV post-exposure, these materials are ready for filling with the corresponding molding compound.

**Date**
31.10.2023

**Page**
1/3

**Contact**
Corporate Communications

Andrea Neumann (Management)
Tel +49 281 670-10300

Tobias Entrup
Tel +49 281 670-10308

Heike Dimkos
Tel +49 281 670-10302

Birte Ölzner
Tel +49 281 670-10249

Hannah Ziehm
Tel +49 281 670-10306

Fax +49 281 670-10999
press@altana.com
www.altana.com/press

**ALTANA AG**
Abelstrasse 43
46483 Wesel
Germany
Tel +49 281 670-8
Fax+49 281 65735
info@altana.com
www.altana.de

# Press Release

Equally innovative is the new **Cubic Ink® High Performance 4-1301 VP** for medical technology applications. The material has been tested for its non-cytotoxic properties by accredited testing laboratories for medical technology. The results of these tests show that the material is well-suited for medical technology applications with direct skin contact, such as orthoses for fingers or arms.

**Cubic Ink® High Performance 4-2800 VP-ESD** is set to debut in the segment of ESD-compliant, or antistatically designed, printing materials. The resin is engineered for crafting items that possess electrostatic dissipative properties, effectively mitigating the risk of sudden voltage discharges in sensitive electronic components. These materials are used primarily in handling and in the manufacture of electrical or electronic components, shielding them from damage caused by uncontrolled electrostatic voltage discharges.

This resin can be processed efficiently and swiftly, thanks to its low viscosity. After printing, it can be cleaned with water and exhibits commendable mechanical properties following post-treatment. It also has remarkable reactivity and boasts good electrical conductivity, with a surface resistance of $1.8 \times 10^7$ Ωcm, as measured under laboratory conditions.

Another highlight is the recently unveiled **Cubic Ink® High Performance 4-2100 VP**, which features exceptional impact strength and heat resistance. This low-viscosity material enables fast and precise printing, while its remarkable flexibility makes it especially well-suited for the manufacture of production aids, including sturdy internal components for industrial grippers.

Further information and technical data sheets on the products can be found on the website: Cubic Ink - ALTANA AG.

We look forward to seeing you at formnext: **Hall 12.1, Booth F99.**

Arm orthosis made of
Cubic Ink® high-performance material

Molds for the production of hearing aids
filled with a colored silicone

# Press Release

Bobbin for the winding and unwinding of e.g. cables as well as wires

More than ten new resin-based Cubic Ink® materials for 3D printing have been developed by ALTANA

**About ALTANA:**
ALTANA is a global leader in true specialty chemicals. The Group offers innovative, environmentally compatible solutions for coating manufacturers, paint and plastics processors, the printing and packaging industries, the cosmetics sector, and the electrical and electronics industry. The product range includes additives, specialty coatings and adhesives, effect pigments, sealants and compounds, impregnating resins and varnishes, and testing and measuring instruments. ALTANA's four divisions, BYK, ECKART, ELANTAS, and ACTEGA, all occupy a leading position in their target markets with respect to quality, product solution expertise, innovation, and service.

Headquartered in Wesel, Germany, the ALTANA Group has more than 48 production facilities and 63 service and research laboratories worldwide. Throughout the Group, about 7,000 people work to ensure the worldwide success of ALTANA. In 2022, ALTANA achieved sales of more than € 3 billion. About 7 percent of the total sales is invested in research and development each year. Its high earning power and high growth rate make ALTANA one of the world's most innovative, fastest growing, and most profitable chemical companies.

www.altana.com