

Press Release

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Formnext 2023: Forward AM Brings Distinct Perspective to Additive Manufacturing Fair with Strong Focus on Collaboration, Sustainability and Innovative New Materials

- » **CEO and Managing Director Martin Back to participate in mainstage panel discussion covering the power of partnerships throughout the value chain**
- » **New game changing product launches along with opportunities to participate in expert networking events**
- » **Continued success and expansion of #ProjectZero sustainability initiatives and goals**

HEIDELBERG - Forward AM, the BASF 3D Printing Solutions GmbH brand, announced today a raft of new product launches with exceptional functionality and optimal performance enabling new applications for our customers. Forward AM will showcase these at the annual Formnext event in Frankfurt, as well as its ongoing commitment to industry-wide sustainability and collaboration.

‘Additive Manufacturing is the strategic element of any manufacturing business that wants to future-proof its activities. In the race against time, adoption of existing AM applications and collaboration to create new ones is a matter of survival. And at every step of the way, we have to consider our environmental footprint. I am proud that the products and sustainability measures that we’re launching at Formnext bring

new innovation dimensions to an industry that is under pressure to transform,' said CEO and Managing Director Martin Back in advance of the event.

Forward AM will be exhibiting at Formnext 2023 in a spacious booth close to many trusted industry partners and will showcase a variety of innovative parts and product highlights on sustainably built displays. The company will also be hosting a diverse schedule of engaging and informative events:

- **Press Event & New Product Launches at our booth D61** on Tuesday, Nov. 7 at 3:00 p.m.
- **Rave Til AM Party - One Industry Under a Groove** on Tuesday, Nov. 7th from 6:00 p.m. to 2:00 a.m. as Forward AM joins forces with DyeMansion, AM Ventures, HP, Siemens, EOS and 3D Printing Industry to offer an afterwork party inside Hall 12.0.
- **Enabling Rapid Molding Solutions with Ultracur3D® RG 3280** on the Tech Stage on Wednesday, Nov. 8th from 10:15 - 10:30 a.m.
- **Beans and Beams: Lattice Generation Workshop** on Wednesday, Nov. 8th from 10:30 - 11:30 a.m.
- **Keynote Panel Discussion with Martin Back** on The Power of Collaboration in the Value Chain on Thursday, Nov. 9th from 4:00 - 4:50 p.m.
- **Networking Coffee Break Discussions** from 10:30 - 11:30 a.m.: Sustainability on Tuesday and Digitalization on Wednesday

Forward AM is forging a new path through #ProjectZero with continued growth of their sustainability initiatives to build a greener future for all

#Project Zero is Forward AM's comprehensive plan of long-term commitments for reducing their carbon footprint and impact on the planet. By developing sustainable products, solutions and production methods, Forward AM is continuing to focus on studying the impact of the 3DP industry. Through the development and implementation of Life Cycle Assessment (LCA) studies, Forward AM is setting a clear vision for the future with measurable sustainability initiatives and revolutionary products.

Today, Forward AM makes available four new LCA studies for their filament materials: Ultrafuse® PLA, ABS, PET, and rPET. Four more will follow and are slated to be complete before the end of 2023. These are for the following materials: PA11, PA11 rCF, PA11 Black CF, and PA11 ESD.

Forward AM has also released an environmental study on CO2 reduction. Analysis of different scenarios using Ultrafuse® PLA, ABS, PET, and rPET demonstrate significant decreases in the environmental impact of these materials. When comparing values for the same material, for example rPET, thanks to changes made in packaging, spools and energy, it has resulted in a 69% carbon reduction.

New Product Launches

Ultrasint® PA11 rCF – For customers who like the performance of PA11 Black CF but want a more sustainable option, Forward AM offers a new material reinforced with recycled carbon fibers. This environmentally friendly product delivers optimal mechanical performance of printed components when strength and rigidity are crucial while the recycled carbon fiber ensures a significantly lower environmental footprint.

Ultrasint® TPU 90A LT – This rubber-like, flexible material complements the PBF Ultrasint® TPU Portfolio with a stiffer, lighter and higher rebound material. The new base material is easy to process, enabling users to realize parts requiring enhanced UV and hydrolysis resistance and is targeted for performance applications in consumer goods such as footwear and personal protection.

Ultracur3D® 9400 B FR – This rigid, flame-retardant material can be used for production parts requiring UL 94 V-0 rating. It offers superior temperature performance of up to 250°C along with low viscosity, exceptional functionality, and temperature stability, making it ideal for demanding applications in electronics, custom jigs & fixtures as well as replacement parts for industrial environments.

Ultrafuse® PLA Tough – This bio-based material is 7 times faster to print and 7 times stronger when compared to standard PLA. Ultrafuse® PLA Tough

enables both cost and time-savings when producing large components. It offers consistent performance and biocompatibility, making it ideal for applications such as orthotics and prostheses. It also has demonstrated success for producing jigs & fixtures and for prototyping.

P3™ Stretch™ 80 powered by BASF Forward AM – One of the latest additions to the Stratasys portfolio is P3™ Stretch™ 80, a material developed by BASF Forward AM for the Origin® One P3™ DLP printer. This material is easy to print and process, has a medium Shore A hardness of 80, and is suitable for targeted applications including fit & form prototype testing, seals, gaskets, and grips.

Coming Together at Formnext

Forward AM, the BASF 3D Printing Solutions GmbH brand, will be exhibiting at Formnext 2023 in Frankfurt am Main Germany from November 7 – 10. They will be located in Hall 12.1, Booth D61. More information can be found on the Formnext Microsite at: **Formnext 2023 (forward-am.com)**

About BASF 3D Printing Solutions

BASF 3D Printing Solutions GmbH, headquartered in Heidelberg, Germany, is a 100% subsidiary of BASF. It focuses on establishing and expanding the industrialization of 3D printing applications under the Forward AM brand with advanced materials, system solutions, components, and services in the field of 3D printing. BASF 3D Printing Solutions operates in an agile structure to create customer value with complete 3D printing solutions, in collaboration with partners, for the most innovative applications. It cooperates closely with the global research platforms and application technologies of various departments at BASF and with research institutes, universities, startups and industrial partners. Potential customers are primarily companies that intend to use 3D printing for industrial manufacturing. Typical industries include automotive, aerospace and consumer goods. For further information please visit: www.forward-am.com.

About BASF

At BASF, we create chemistry for a sustainable future. We combine economic success with environmental protection and social responsibility. More than 111,000 employees in the BASF Group contribute to the success of our customers in nearly all sectors and almost every country in the world. Our portfolio comprises six segments: Chemicals, Materials, Industrial Solutions, Surface Technologies, Nutrition & Care and Agricultural Solutions. BASF generated sales of €87.3 billion in 2022. BASF shares are traded on the stock exchange in Frankfurt (BAS) and as American Depositary Receipts (BASFY) in the United States. Further information is at www.basf.com.

