Forward AM
Innovating Additive Manufacturing

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Forward AM – Innovating Additive Manufacturing

Forward AM provides superior materials and solutions with the goal to lead the Additive Manufacturing industrialization. With our access to the full spectrum of BASF’s material know-how and our extensive end-to-end services portfolio, we meet our customers highest requirements.

About Forward AM
- BASF established Forward AM in September 2017 to focus on advanced AM
- Headquartered in Heidelberg, Germany
- Team of over 150 people dedicated to AM
- Our Application Technology Center (ATC) is exclusively focused on delivering outstanding added-value customer applications
- Our global organizational structure is placed in Europe, America and Asia

Forward AM is Unique

<table>
<thead>
<tr>
<th>Depth of Experience</th>
<th>Know-how</th>
<th>Unique on the Global Market</th>
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</thead>
<tbody>
<tr>
<td>Taps into decades of BASF proprietary research into advanced 3D printing materials</td>
<td>One-stop provider of all advanced AM technologies and application-specific consultancy</td>
<td>One of the world’s most extensive portfolio of different 3D printing materials</td>
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<td>Co-developer of customer-specific AM materials and solutions for global players</td>
<td>Direct access to global BASF Group materials portfolio, sourcing and distribution channels</td>
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Our Focus Industries
- Automotive
- Consumer Products
- Medical & Dental
- Aerospace

We Offer Solutions Along the Full Value Chain

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<tr>
<th>Raw Materials</th>
<th>3D-P Formulation</th>
<th>Consulting Services, Simulation and Design</th>
<th>Parts Printing</th>
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<tr>
<td>Access to BASF SE portfolio</td>
<td>Liquids</td>
<td>Support our customers to industrialize AM</td>
<td>First samples</td>
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<td></td>
<td>Powders</td>
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<td>Pre-series production</td>
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<td>Filaments</td>
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About the BASF Group
- BASF’s quality chemistry is used in almost all industries
- Combining economic success, social responsibility and environmental protection

Our Material Solutions and Services

### Powder Bed Fusion (PBF)
The excellent batch-to-batch consistency and superior properties of our Ultrasint® powders create opportunities for new industrial applications.

#### Example Applications:
- Robust functional prototypes
- High performance series parts
- Tools jigs & fixtures

### Photopolymers and Inks
Our Ultracur3D® portfolio for SLA, DLP, LCD and PJP covers a diverse range of properties for AM applications, from high accuracy to improved impact strength to optimized long-term stability.

#### Example Applications:
- Performance prototypes
- Functional end use parts
- Fluid flow models

### Metal Filaments for FFF
Create 100% metal parts cost-effectively. Our Ultrafuse® metal filament is easy to print on the majority of standard FFF printers.

#### Example Applications:
- Series production
- Tool jigs & fixtures
- Functional parts & prototypes

### Additive Manufacturing Services
We support you in: Virtual engineering (design for AM, simulation), parts printing, 3D printing consulting, post-processing, coatings and finishing.

#### Example applications:
- Realize ideas into printable parts
- Identify & locate low-strength areas
- Reduce the risk of part failure
- Suggest and offer surface treatments

We enable our customers to shape the Additive Manufacturing industrial revolution!