



CONCR3DE
YOUR 3D POWDERHOUSE

PRODUCING THE REMARKABLE

Precision. Performance. Freedom of design. Scalability. CONCR3DE allows you to fully capitalize on the promise of additive manufacturing in industrial applications. With integral solutions based on a dedicated product range, we aim to push the boundaries of high-quality 3D printed parts and products together.

[CONCR3DE.COM](https://concr3de.com)

INDUSTRIAL & HIGH-TECH SOLUTIONS IN 92% ALUMINA



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HIGH-END MATERIALS

Our proprietary binder jetting technology and unique particle filled binder allows you to use technical ceramics in completely new ways. Bringing together their specific properties and the benefits of 3D printing enables you to create novel shapes and applications.

DON'T JUST DREAM BIG

The CONCR3DE platform is exceptionally scalable. Quickly test and optimize parts using our dedicated Reduction Insert in Armadillo Blue. Once validated, conveniently scale dimensions or output by printing up to 50 liters in a single day, from a single printer.

COMPLEXITY MADE EASY

High precision, intricate shapes are now within easy reach. Improve functionality while saving weight, thanks to the unlimited freedom in geometry. Accelerate and simplify design and production processes by eliminating lead times and allow for incremental iterations.

PRODUCTS

Our product range for industry and high-tech applications has been tailored to meet your specific needs. Once you tell us your requirements, and we'll gladly advise you on the integral solution that fits your needs.

ARMADILLO BLUE • This binder jetting 3D printer comes fully featured with all applicable add-ons for industrial and high-tech applications. It includes an integrated NOAH control station, the Reduction Insert to allow for small prints, our printhead capping system to use fast-drying binders, the infrared heater, and more.

HANDLING & POST PROCESSING • CONCR3DE offers all the dedicated tools to allow a fast, clean, and dust-free workflow and make light work of post processing printed parts to reach their final state after printing.

POWDERS & BINDERS • Armadillo Blue currently prints a fully validated 92% alumina material using a particle filled binder. In the future new materials will become available, such as silicon carbide and a range of metals. Furthermore, together with our industrial partners we can deliver custom solutions such as particle filled inks for increased density, process optimization services and hardware customizations.

MATERIAL CHARACTERISTICS

Product name	CerPrint binder and Nabalox powder
Method of manufacture	Binder jetting (Armadillo Blue)
Chemistry	92 wt% Al ₂ O ₃
Bending strength	> 150 MPa
Open porosity	< 7 %
Density	> 3,2 g/cm ³

APPLICATION OPTIMIZATION SERVICE • Benefit from our years of experience with our binder jetting technology. Whether you are looking for a reference print, or would like us to jointly optimize product or part properties, process parameters like print speed and materials use, or scale up your part dimensions or production volume altogether in the best way possible – we are here for you.



Interested to learn more? Detailed specifications are available in our Product Leaflets or check out www.concr3de.com for more information. Are you ready to discuss your application? Send us an email at info@concr3de.com or call +31 (0)85 0606 171.

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