



CONCR3DE
YOUR 3D POWDERHOUSE

MATERIALS TO ACHIEVE YOUR GOALS



CONCR3DE was founded on our desire to upcycle stone waste powders and create sustainable, inorganic, and functional 3D printing materials. Today, our binder jetting printers can do that, but our range of supported materials has expanded rapidly to include, for example, technical materials.

CERTIFIED MATERIALS



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Our printer range supports a broad and expanding range of materials, including ceramics, metals, stone, heat resistant, bio-based, and more. We offer specific binders to match virtually any material in powder form and can customize formulations and processes, supporting your requirements or research.

CERAMICS & METALS

CERAMICS

MATERIAL	COLOR	BENDING STR.	DENSITY	POROSITY	SHRINKAGE	CHEMISTRY
CONCR3DE Alumina 92%	White	> 110 MPa	> 3,1 kg/l	< 10 Vol.-%	17 %	92 wt% Al ₂ O ₃
CONCR3DE Silicon Carbide	Black	> 140 MPa	> 2,6 kg/l	0 Vol.-%	0 %	SiC-Si

METALS

MATERIAL	COLOR	ULT. TENSILE STR.	YIELD STR.	DENSITY	SHRINKAGE	CHEMISTRY
CONCR3DE Stainless 316L	Silver	450 MPa	> 180 MPa	96 %	18 %	N/A
CONCR3DE Stainless 17-4PH	Silver	912 MPa	> 660 MPa	96 %	18 %	N/A
CONCR3DE Copper	Brown	N/A	N/A	83 %	12 %	Cu 99,9 %

STONE & MINERALS

MATERIAL	COLOR	COMPR. STRENGTH	FLEXURAL STR.	DENSITY	POROSITY
CONCR3DE Marble	White	15 MPa	3,7 MPa	> 1,7 kg/l	> 25 %
CONCR3DE Granite	Gray	15 MPa	3,7 MPa	> 1,7 kg/l	> 25 %
CONCR3DE Limestone	Beige	15 MPa	3,7 MPa	> 1,7 kg/l	> 25 %

FOUNDRY & REFRACTORY

FOUNDRY

MATERIAL	BENDING STR.	LOSS ON IGNITION	REFRACT.	DENSITY	POROSITY
CONCR3DE Foundry Quartz P	5 MPa	2 Weight %	SK33 / 1.730°C	1,5 kg/l	40 %
CONCR3DE Foundry Quartz I	3 MPa	0,5 Weight %	SK33 / 1.730°C	1,5 kg/l	40 %
CONCR3DE Foundry Cerabeads P	5 MPa	2 Weight %	SK37 / 1.825°C	1,5 kg/l	40 %
CONCR3DE Foundry Cerabeads I	3 MPa	0,5 Weight %	SK37 / 1.825°C	1,5 kg/l	40 %

REFRACTORY

MATERIAL	CCS	BEND. STR.	REFRACT.	DENSITY	POROSITY	CHEM.	THERM. EXP.
CONCR3DE Refractory Cement	13 MPa	3,5 MPa	1.400 °C	1,6 kg/l	> 32 %	Al > 50 %	1,6 x 10 ⁻⁶ K ⁻¹

BIO & SUSTAINABLE

MATERIAL	COLOR	COMPR. STRENGTH	FLEXURAL STRENGTH	TENSILE STR.	DENSITY
CONCR3DE Wood	Brown	50 MPa	35 MPa	30 MPa	> 1,1 kg/l

UPCYCLING

CONCR3DE is dedicated to upcycling waste materials, whether bio-based or stone. You can now create value, in the form of sustainable, functional printed end-use products, from material streams that were previously deemed worthless - or even expensive to dispose of. Thanks to our 3D printers and binder options, you can now utilize otherwise wasted material, but also produce detailed and valuable objects with exceptional material properties. Through this innovative approach, you can minimize waste and showcase the potential of using waste materials to produce sustainable solutions. Contact our team to learn more.



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