



KRUNNER 

**PIONEERING
CEMENT-FREE
CONSTRUCTION**

SUMMARY



INTRODUCTION



UNITED IN VISION



UNIQUE BENEFITS



"THERE MUST BE SOMETHING WE CAN DO WITH ALL THIS SAND."

This legendary concept will be the turning point of change in the construction business. It led us to successfully develop our proprietary binder technology that can transform dune sand into a sustainable, low-carbon, construction-grade material that outperforms concrete.



PRODUCTS AND APPLICATION ACROSS SEVEN INDUSTRIES



PARTNERSHIP AND INNOVATION



LIVING IN HARMONY





Kruner Industries is a next-generation material-and product-innovation company poised to meet global demand for sustainable, energy-efficient, and cost-effective construction solutions with minimal disruption.

A team composed of like-minded, future-oriented people with strong traditional values, we seek to uphold trust and honour in our relationships, steward the resources of our environment, and create a positive impact on society.





UNITED IN VISION

**BUILDING KRUNER CITIES: ONE DAY EVERY HOME
AND CITY WILL BE 100% SUSTAINABLE AND
ENVIRONMENTALLY FRIENDLY.**



UNIQUE BENEFITS

After conducting over 10 years of research and development, Krumer Industries is launching groundbreaking construction innovations capable of competing with some of the most commonly used materials in the industry. These innovations give construction companies a sustainable advantage in the face of increasing environmental concerns, governmental regulations, and energy costs.



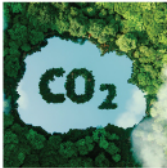
COST-EFFECTIVE



MINIMUM 60% LESS WATER NEEDED



UP TO 80% LESS ENERGY



UP TO 90% LESS CO2



100% SUSTAINABLE



CIRCULAR ECONOMY

- Cement-free, no slag or fly ash
- ESG-and SDG-friendly
- Superior performance
- Widely accessible raw materials
- Global scalability
- Harm-free
- Minimal disruption



Our Kruner Binder is a revolutionary product that transforms the construction industry. It replaces cement and can be mixed with any type of sand, even desert sand, to create a concrete-like substance that we call KrunerRoc.

This innovative product is incredibly versatile and can be used in all seven building and construction industries.



Our proprietary binder technology is the key to all our material innovations. Our binder uses natural and harm-free raw materials that are widely accessible and responsibly mined. It is 100% inorganic and free from synthetic components. We have succeeded in customising our binder to fuse with various raw materials to develop a range of breakthrough, sustainable, and high-performing construction products with extensive applications.

Our binder technology is the only one able to fuse dune sand or mining-waste sand into construction-grade material, making vast untapped resources available for construction use. It is also able to cure clay without the need for kiln firing, significantly lowering energy consumption by up to 80% and CO2 emissions by up to 90% during production.



7 INDUSTRIES

Our binder is applicable across seven construction and building industries.

- Cement
- Precast
- Ready-mix concrete
- Insulation
- Wet cast
- Brick
- Ceramics



KRUNER BINDER APPLICATION



CEMENT

PRECAST

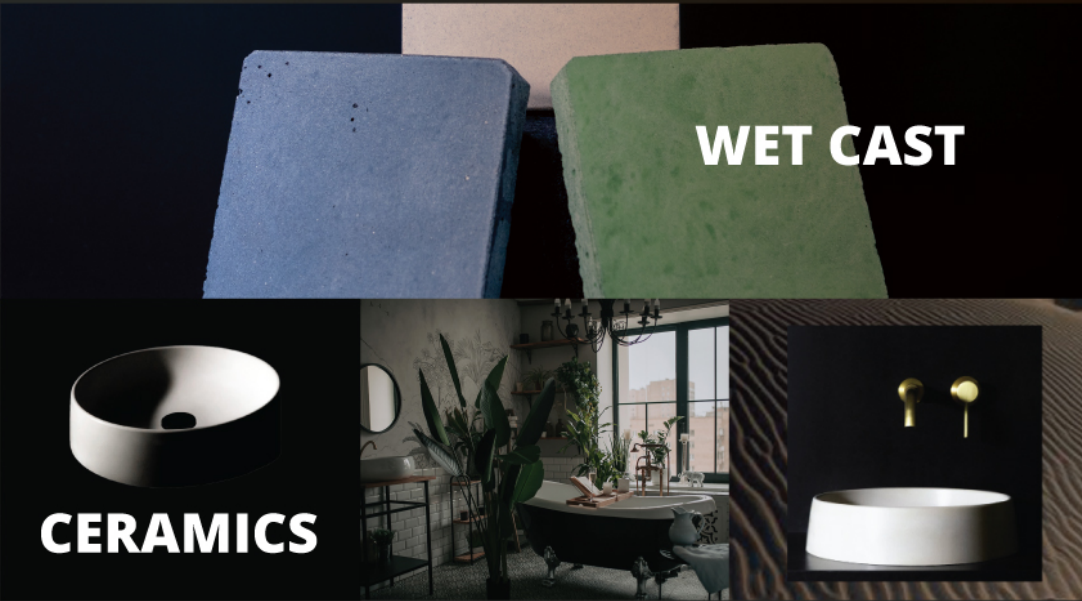
BRICK



**READY-MIX
CONCRETE**



INSULATION



WET CAST

CERAMICS

A glowing lightbulb is held between two hands, one on the left and one on the right, against a dark, textured background. The lightbulb is illuminated from within, casting a warm glow. The hands are positioned as if they are holding the lightbulb together, symbolizing partnership and innovation.

PARTNERSHIP AND INNOVATION

WORKING TOGETHER WITH VALUED PARTNERS
TO GET MORE ACCOMPLISHED CREATING
THOUGHTFUL AND FUNCTIONAL SOLUTIONS
WITH SUPERIOR QUALITY, VALUE, AND SERVICES



SUSTAINABLE CONSTRUCTION

At Kruner Industries, we foster innovation through strategic global partnerships with industry leaders, advanced R&D facilities, esteemed universities and by partnering with the most prestigious research institutions and major authorities in the field of sustainable construction.

These alliances are an integral part of our DNA, providing unique expertise and resources that drive our mission and accelerate innovation.

Through these collaborations, we uphold our commitment to excellence and pioneering solutions.

LIVING IN HARMONY WITH NATURE

We prioritize sustainability in all aspects of our innovation process.

ENVIRONMENTAL STEWARDSHIP

- Reduce energy consumption
- Reduce carbon and pollutant emissions
- Responsibly use raw materials, and draw from untapped resources
- Increase use of natural, non-toxic, hazard-free substances

QUALITY AND VERSATILITY

- Outperform traditional / alternative materials and products
- Expanded applications
- High adaptability

GLOBAL AND INDUSTRIAL SCALABILITY

- Ease of adoption with minimal disruption
- Adaptable to existing production process
- Cost-effective and efficient to produce and use

100%
RECYCLABLE

100%
SUSTAINABLE

KRUNER-CERTIFIED TESTS Typical values shown without optimisation in accordance with specific application requirements

Test	Parameters	Mean Value	Standard	Laboratory	Report	Date
Compressive strength	28 days after hardening in seawater	58.9 N/mm ²	ONR 23303	OFI, Austria	2200742-en / 17085	01-04-22
	Standard	66.0 N/mm ²	ONR 23303	OFI, Austria	2102235 / 15821	31-01-22
	28 days after storing in water	68.7 N/mm ²	ONR 23303	OFI, Austria	2102235 / 15821	31-01-22
	After fire test	62.7 N/mm ²	NA	OFI, Austria	2102235 / 15821	31-01-22
	28 days; Granite sand 0-8mm	56.2 N/mm ²	EN 12390-3	TU Wien	BP23/0951	18-04-23
	56 days; Granite sand 0-8mm	61.3 N/mm ²	EN 12390-3	TU Wien	BP23/0951	17-05-23
Tensile strength	Granite sand 0-8mm	3.5 N/mm ²	EN 12390-6	TU Wien	BP23/0951	20-04-23
Flexural strength	Standard	8.3 N/mm ²	ÖN EN 14617-2	OFI, Austria	2102235 / 15821	31-01-22
	Granite sand 0-8mm	5.6 N/mm ²	EN 12390-5	TU Wien	BP23/0951	26-04-23
Density	Granite sand 0-8mm	2250 kg/m ³	EN 12390-7	TU Wien	BP23/0951	18-04-23
Depth of water penetration	Granite sand 0-8mm	13mm	EN 12390-8	TU Wien	BP23/0951	22-05-23
Modulus elasticity	Granite sand 0-8mm	18,500 N/mm ²	EN 12390-13	TU Wien	BP23/0951	19-04-23
Delamination effect / Pull-Out test 16mm bar	Granite sand 0-8mm; 16mm steel bar	min. 97.1kN max.: 102.5kN	EN 10080 Anhang D	TU Wien	BP23/0951	22-05-23
Burning behaviour - Calorific value		Class A1: 0 MJ/kg	EN ISO 1716	OFI, Austria	2102235 / 15821	31-01-22
Burning behaviour - non-combustibility		Temp. rise Class A1: 1°C Mass loss Class A1: 4% Flaming duration A1: 0 sec	EN ISO 1182	OFI, Austria	2102235 / 15821	31-01-22
Thermal conductivity	Solid block; Quarz 0,1-0,2	Density: 1911kg/m ³ 0.777W/mK	EN 12667	OFI	2201450 / 18138	20-07-22
	Foam block	Density: 202kg/m ³ 0.048W/mK	EN 12667	OFI	2201450 / 18138	20-07-22
	Insulation foam block	Density: 90kg/m ³ 0.039W/mK	EN 12667	Kruner Lab	2201450 / 18138	20-08-23

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KRUNER
INDUSTRIES

