



# Lower your carbon footprint



**CarbiCrete develops innovative, low-cost building solutions that help reduce greenhouse gases. Our breakthrough, patented technology enables the production of cement-free, carbon-negative concrete using mineral waste and CO<sub>2</sub> as raw materials.**

Using a process called carbonation activation, we eliminate the need for cement in concrete by replacing it with ground steel slag, a by-product of steel-making. The concrete mix is poured into molds just like conventional concrete, and then cured using CO<sub>2</sub>.

We are licensing the use of this technology to precast concrete manufacturers and will supply the process and support to get partners set up to produce high quality, carbon-negative concrete. Using products made with CarbiCrete technology can contribute to a project's LEED certification.

**30%**  
STRONGER THAN  
CEMENT-BASED CMUS

LOWERING EMISSIONS  
ANNUALLY BY  
**20,000**  
TONNES

COST SAVING OF UP TO  
**20%**

Visit us online at [carbicrete.com](http://carbicrete.com)

# CarbiCrete

## Cleaner Concrete

Implementation of the technology reduces GHG emissions by replacing cement in the concrete mix with steel slag, a steel making by-product, and by capturing CO2 in the curing process.

A plant using CarbiCrete technology producing 25,000 CMUs per day would reduce annual emissions by 20,000 tonnes.

**3kg of CO2 removed per CMU**  
2kg avoided by not using cement +  
1kg captured during curing

## Better Concrete

CarbiCrete CMUs are up to 30% stronger than cement-based CMUs. They are at full-strength and ready to ship immediately after curing (24 hours vs 3 days).

## Cheaper Concrete

CarbiCrete has a better economic model than cement-based concrete. Using steel slag instead of content represents a cost saving of between 10% and 20%.



## Annual license fee

Based on production capacity and the number of product lines



## One-time set-up fee

To outfit a plant for process implementation



## Supply and quality assurance

We guarantee the supply of concrete-appropriate steel slag

	Cement-Based CMU	CarbiCrete CMU
Density (kg/m3)	2250	2250
Water absorption (%)	5.5	6.0
Compressive strength (MPa)	20	26
Time to full-strength (in days)	2-3	1
Moisture content (%)	1.7	1.5
Fire resistance rating (hrs)	2	2

We have a worldwide steel slag supply agreement with Harsco Environmental, the steel industry's largest materials processor. This means our customers are guaranteed to always have access to top quality slag in whatever quantity they require.

[www.harsco-environmental.com](http://www.harsco-environmental.com)

**HARSCO**  
ENVIRONMENTAL

MAKING A WORLD OF DIFFERENCE™

CarbiCrete

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