



Introducing Yummet Cleancrete.

Yummet has developed a net-negative concrete made **entirely** from waste-streams sourced from the community and industry.

The Yummet process **bypasses** calcination altogether and stores carbon dioxide for **millennia** while meeting or exceeding concrete testing standards. This process can be utilized at any scale, for any project, anywhere.

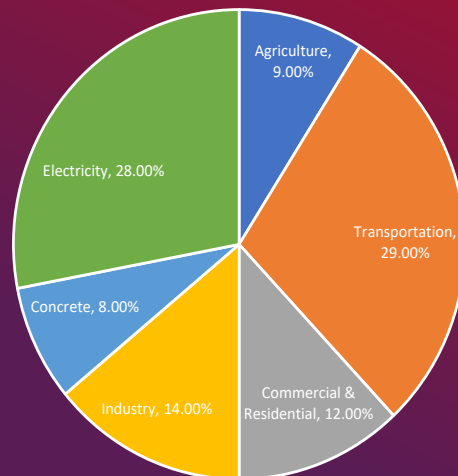
What is Yummet Cleancrete?

Yummet's net-negative concrete is made with a proprietary alkali-activated cement combined with post-industrial binder and aggregates that **eliminates** the need for industrial mining and **calcination**.

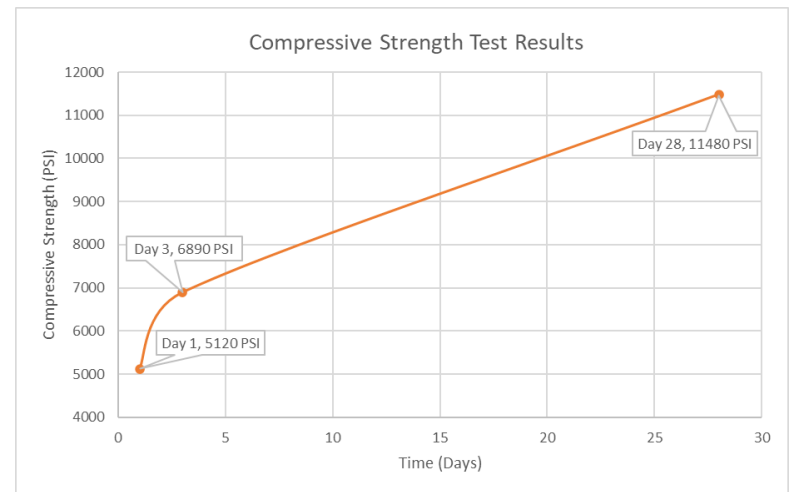
Calcination is the process of heating limestone (calcium carbonate) in a kiln with clay and other materials. This heat initiates a chemical reaction that produces lime (calcium oxide) and carbon dioxide while consuming energy. By eliminating the need for limestone altogether and being 100% powered by green technology, **Yummet has eliminated all sources of greenhouse gas emissions** from the cement-making process.

Yummet Cleancrete's use of waste-streams doesn't just cut GHG emissions - by utilizing community and industrial waste in their mix, **Yummet effectively sequesters carbon dioxide for millennia**.

Global CO2 Emissions By Category



Source: <https://psci.princeton.edu/tips/2020/11/3/cement-and-concrete-the-environmental-impact>



Yummet Cleancrete is net-negative without sacrificing strength.

Our concrete has a compressive strength of over **5000 PSI** on Day One.

This means that Yummet Cleancrete can be **driven on the very next day** after laying.

After 28 days, Yummet Cleancrete exceeds a compressive strength of over **11000 PSI**.

This allows for **higher loads** for transport across bridges, **less material** in structural applications, and **improved abrasion resistance**, leading to a longer lasting product.

Yummet Cleancrete is not only environmentally friendly.

It's human friendly.

Many cement mixes are highly alkaline when water is added to them. Yummet Cleancrete has a pH that is **closer to neutral**, so standard protective equipment is sufficient to prevent highly irritating caustic burns.



For further communication contact brittany@yummet.com

Net-negative concrete that works.

YUMMET CLEANCRETE EXCEEDS CONCRETE TESTING STANDARDS.



Yummet Cleancrete has undergone extensive testing and is available at scale. This testing revealed a concrete that lasts longer with less material, saving costs and cutting down on secondary emissions related to concrete production such as transportation and rebar manufacturing.

Yummet produces a high-quality product at any scale, anywhere.

OUR TEST RESULTS

Modulus of Elasticity
6.94x10⁶ PSI (Day 3)
Poisson's Ratio
0.36
83000 (f_c)^{1/2}

Set Time
3 Hours 15 Minutes
(Initial)
5 Hours 10 Minutes
(Final)

Slump
1-6 Inches
Readily Available at Any
Slump

Flexural Strength (Day 7)
750 PSI
9.0 (f_c)^{1/2}

WHAT THEY MEAN

Modulus of Elasticity, Poisson's Ratio, and f_c are all measures that test strain on concrete.

These results indicate a longer pavement fatigue life, requiring less repairs and lasting longer.

Initial set time is when the cement paste starts to harden, while final set time is when the concrete is mostly hardened.

Yummet Cleancrete's set times are appropriate for any project.

Slump is the measure of how workable fresh concrete is.

Yummet Cleancrete has suitable slump for a wide range of applications.

Flexural Strength is the measure of unreinforced concrete's failure resistance in bending.

Higher flexural strength allows for thinner pavements and reduces the need for reinforcement.

Yummet Cleancrete also has a **Significant Heat of Hydration**, which is the amount of heat produced when water is added to the cement mix.

This allows for some **self-curing**, and excellent application in **cold-weather construction**.

We work with partners around the globe.

For further communication contact brittany@yummet.com

