



SUPERIOR MATERIALS

**BUILDING STRONG
WITH ECO-SOLUTIONS**



***Superior Materials** provides more environmental alternatives for designers and contractors than any other producer in our area. We are the first ready-mixed concrete producer to bring sustainable concrete solutions to Southeast Michigan. Using our decades of experience and knowledge, we provide the most variety in sustainable solutions for your job.*

LEADING WITH CARBONCURE™ TECHNOLOGY

Superior Materials is partnering with CarbonCure™ technologies to reduce the carbon footprint of our concrete. This technology recycles waste carbon dioxide (CO₂) to improve compressive strength and reduce the cement content of our mixes without impacting strength or performance. On average, 25 pounds of CO₂ per cubic yard of concrete are saved using the CarbonCure technology.

REPLACING OPC WITH PLC

As an alternative to ordinary portland cement (OPC) with the same durability and resilience, portland-limestone cement (PLC) typically provides 10 percent reduction in the carbon footprint. It performs just like the cement you're used to using, follows the same specifications, the same mix design, only with a lower carbon profile. The advantages of PLC beyond its reduction in the carbon profile is that it is a 1:1 cement replacement.

CONCRETE ADDITIVES REDUCE CARBON FOOTPRINT

We offer a full line of concrete additives that can increase the sustainability of your next project, while making concrete stronger, less susceptible to cracks, more cost efficient, and easier to place and finish. Our experienced team of concrete specialists skillfully blend sophisticated combinations of chemical admixtures, fibers, supplementary cementitious materials and color pigments to support our customers' innovations in construction methods. We can reduce your carbon footprint while improving the quality, strength, durability and appearance of the finished concrete. There are five distinct types of chemical admixtures that all increase the sustainability of your concrete:

- Air entraining agents
- Water-reducing chemicals
- Retarders
- Accelerators
- Superplasticizers or High Range Water Reducers

**DID YOU KNOW? WE'RE THE FIRST TO BRING
SUSTAINABLE CONCRETE SOLUTIONS TO OUR
CUSTOMERS!**

SCMS REDUCE GREENHOUSE GAS

Supplementary cementitious materials (SCMs) enhance the performance of concrete while reducing its carbon footprint. Typical supplementary cementitious materials include fly ash, slag, silica fume and other natural pozzolans. SCMs make concrete mixtures more economical, reduce permeability, increase strength and can influence other concrete properties. The use of these materials can help to garner LEED credits for green building projects.

56-DAY STRENGTH FOR SUSTAINABILITY

By using a 56-day compressive strength for concrete instead of the standard 28-day strength, the cement content in concrete can be reduced. The concrete will obtain the same ultimate strength needed and since less cement is used, the carbon footprint of the concrete is reduced. In addition to using a 56-day compressive strength, a partial replacement of cement by additives can improve the performance of concrete in strength and durability.



SUPERIOR MATERIALS IS SUSTAINABLY DRIVEN

It all starts from within our company. Our culture is motivated by a commitment to be sustainable in all areas. Superior Materials takes many steps to ensure our plants are making the same commitment to sustainability that we ask you to consider. This commitment is shown through everything we bring to the table. Our belief in innovation as well as our expertise in the industry provides designers and contractors with the best options on the market to build sustainably.

WASTEWATER DISPOSAL

To properly dispose of our wastewater, our process water is captured and contained in settling ponds for removing sediment and turbidity from the water. This results in clarified water available for recycling.

TRUCK WASH-OUT SYSTEM

At Superior Materials, we use Load and Go™ automated drive-through concrete truck washing stations that use 80 percent less water compared to manual wash down sessions.

CONCRETE RECYCLING

Unused concrete that is returned to our plant does not go to waste. We use the excess wet concrete to make concrete blocks that are available for purchase. Any excess dry concrete is sent to a crusher for recycling.

WHAT DOES OUR OWN ADHERENCE TO SUSTAINABILITY DO?

Superior Materials provides training for all employees on environmental programs and policies. This includes spill prevention and response, the types of chemicals we store and the different pathways these chemicals can enter the water, and the controls that we have implemented to prevent pollution. As you can see, sustainability is at our core. Learn how we can help you respond to today's environmental challenges.

CONTACT US

Contact Superior Materials at 888-988-4400 to determine the best method to reduce the carbon footprint in your next project.

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**ENVIRONMENTAL RESPONSIBILITY ISN'T JUST
A TERM TO US – IT'S HOW WE OPERATE.**