



CURBING CO₂ AT THE SOURCE

SOLUTIONS AND PROGRAMS FOR SUSTAINABILITY

SAINT-GOBAIN

RESILIENT AND CARBON NEUTRAL BY

OUR SUSTAINABILITY PROGRAM

We help customers navigate the challenging carbon neutrality journey throughout the concrete lifecycle. Our expert teams assist our producer partners with solutions, tools, and services to develop high-performing concrete.



COMPREHENSIVE SOLUTIONS PORTFOLIO

Enhance concrete performance, quality, and reusability, while reducing the carbon footprint throughout the product lifecycle.



ACCURATE PREQUANTIFICATION

Customers can realize the value of pre-quantifying embodied carbon savings to achieve their targeted CO₂ reduction goals.



SUSTAINABILITY EXPERTS PORTFOLIO

Our expert teams can develop innovative solutions that meet your unique requirements and material challenges.



ENVIRONMENTAL PRODUCT DECLARATIONS

We continue to support our customers during the EPD validation process through our partnership with an industry leading program operator.



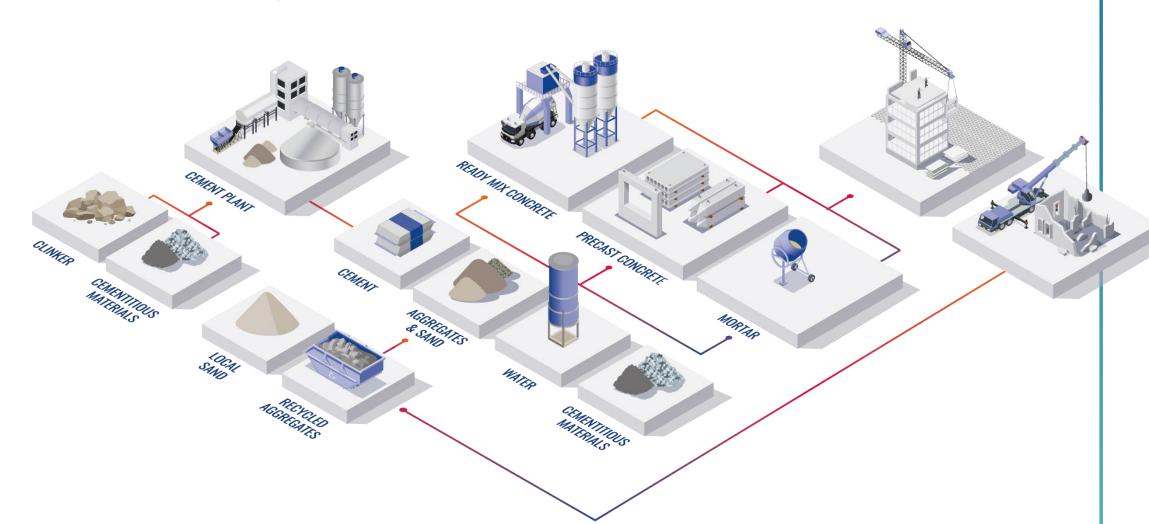
UNIQUE PARTNERSHIP APPROACH

We drive the education and application of sustainable concrete practices alongside assisting with mix design optimization for CO₂ reduction.



COMPREHENSIVE PORTFOLIO OF SOLUTIONS

We partner with our customers throughout the cement and concrete lifecycle enabling them to achieve their technical, business and sustainable objectives.



CO₂ OPTIMIZED SOLUTIONS

Cement Reduction

Highest potential for CO₂ reduction with Strength Enhancers EnviroMix® SE

Cement Replacement

High potential for CO₂ reduction with Water Reducers (Adva®, CHRYSO®Optima, Concera®, EnviroMix®) and Accelerators

Use Local Materials to Reduce Transportation

Slight potential for CO₂ reduction with CHRYSO®Quad and Clarena®

Fiber Conversion from Steel

70-80% lower embodied carbon than reinforcing steel with Macro and Fibrillated Fibers, Strux® & Sinta®

Recycled and Returned Concrete Solutions

Operational efficiencies with CHRYSO®Convert-C and Recover®

Reducing Clinker % and Energy Consumption

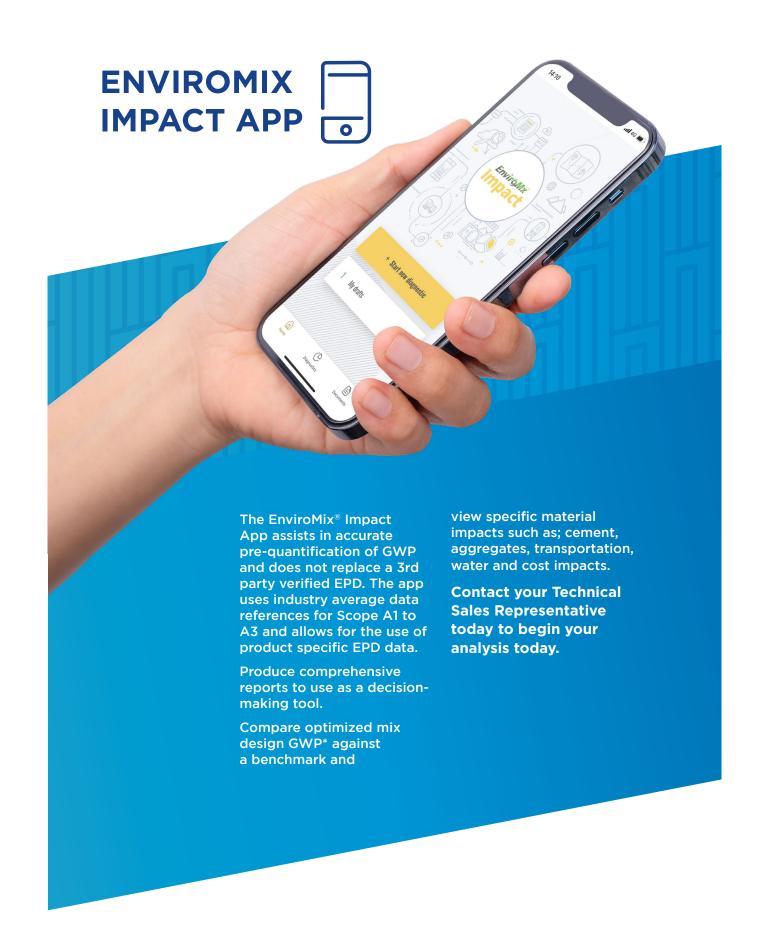
Cement additives Opteva® & Tavero® for quality improvement and grinding efficiency

MIX OPTIMIZATION FOR CO₂ REDUCTION

Proprietary embodied carbon app to pre-quantify results

The mix optimization process considers many factors. Improving concrete durability, resiliency, and overall sustainability starts with the following steps:

- Working with customers to characterize their materials
- Defining customer targets and developing a mix optimization strategy
- Supporting customers through our regional application labs
- Quantifying CO₂ reduction of optimized mix designs



INDUSTRY NEEDS REDUCTION

With data availability and transparency with a on-demand EPD program

Simplifying compliance with evolving industry requirements. Our technical partner WAP Sustainability Consulting, we have created a program that uses our product specific admixture EPD data in developing your concrete mix designs EPDs.



WEB-ENABLED TOOLS



3RD PARTY VALIDATION



SCALABLE SOLUTIONS



ROBUST
ADMIXTURE DATA

GETTING STARTED WITH AN EPD

Contact your Technical Sales Representative to start the process.

INITIAL CONSULTATION

With our Sustainability Program Manager and technical partner to review process, costs and goals

DATA COLLECTION

Of plant specific operational data, such as energy and water use along with material information

LIFE CYCLE ASSESSMENT

Of concrete materials and plant data

DOCUMENT GENERATION

EPDs generated per ISO standards and verified via a 3rd party



UNIQUE PARTNERSHIP

Customer-driven Approach

- Streamlined admixture screening process and agility to custom formulate
- Adapt to rapidly changing materials, new cements, SCMs, aggregates, and sands

In-house Knowledge

 Strong local admix formulation and concrete materials expertise (Cement, SCM, Aggregates)

Synergistic Efforts

- For both cement and concrete performance
- Patent-pending technologies to support low clinker factor cement while maintaining performance
- Proprietary mill diagnostic process support, and other Tech Services
- Focus on minimizing impacts to concrete

Quick Technology Transfer

- 5 application labs across North America to enhance testing capabilities and fast responsive times
- 2 R&D Centers with the ability to deliver next-generation solutions

Eco-innovation Practices

- Material decision-making driven by internal LCA expertise
- Designed with circular economy in mind

Training and Support

Helping your teams navigate the rapidly changing carbon and sustainable construction conversation.

Whether it's a deep dive on mix optimization for CO₂ reduction or understanding how decarbonization efforts are impacting specifications, we're here to collaborate on everything from training programs to project support.



SAINT-GOBAIN CONSTRUCTION CHEMICALS

GCP • 2325 Lakeview Parkway •
Alpharetta • GA 30009 • USA
Tel: +1 877 423 6491
www.gcpat.com
CHRYSO • 3958 Ruger Drive •

CHRYSO • 3958 Ruger Drive • Royse City • TX 75189 • USA Tel: +1 972 772 6010 www.chryso.com



Contact your Technical Sales Representative today and let's start building the future together.