

SAINT-GOBAIN

WORLDWIDE LEADER IN LIGHT AND SUSTAINABLE CONSTRUCTION



One of the top 100 **global innovators** over the last 10 years



Commitment: **achieve net zero emissions** by 2050



World or European leader in most of our businesses

Over **161,000** employees representing more than 110 nationalities

Located in **80** countries

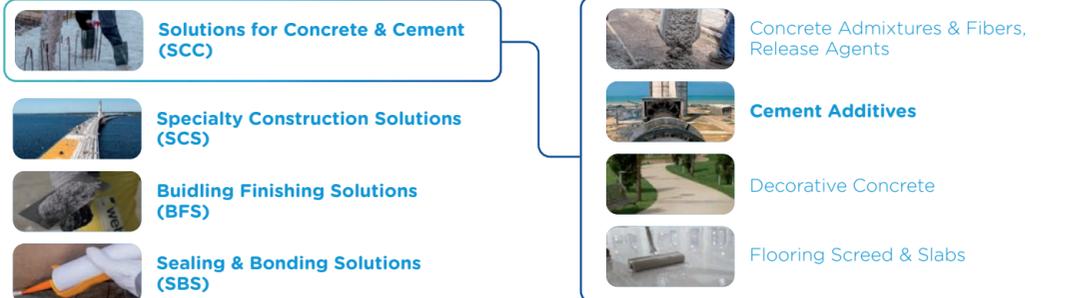
Sales in 2024 in € **46.6BN**

Around **1,100** manufacturing facilities worldwide

CONSTRUCTION CHEMICALS PERFORMANCE SEGMENT

CONSTRUCTION CHEMICALS ARE A KEY PILLAR OF SAINT-GOBAIN STRATEGY TO BE THE WORLDWIDE LEADER IN LIGHT & SUSTAINABLE CONSTRUCTION

ORGANIZED BY PERFORMANCE LINES



Curbing CO₂ at the source

SUSTAINABLE ADDITIVES FOR THE CEMENT INDUSTRY



Scan the QR Code to discover our solutions for sustainable construction



Chryso
 Saint-Gobain Tower • 12 Place de l'Iris
 92400 Courbevoie • FRANCE
www.chryso.com

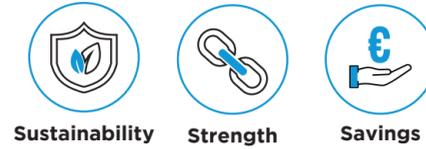


NEXT-GENERATION ACTIVATORS

EnviroAdd®

Our next-generation activators are custom designed solutions to deliver targeted activation providing higher clinker substitution rate for unique cement compositions.

Built on advanced chemistry and technical expertise, EnviroAdd® solutions help producers achieve greater sustainability, performance, and cost savings.



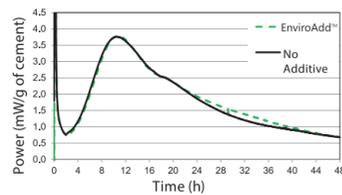
- Maximize clinker replacement
- Promote use of alternative fuels
- Activate novel supplementary cementitious materials (SCM); E.g. calcined clay or LC3
- Reduce CO₂ emissions by up to 11%
- Higher water demand reduction

SUPERIOR PERFORMANCE IN A VARIETY OF SCM

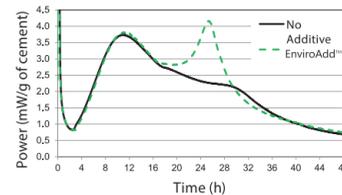
Mechanistic studies demonstrate targeted activation across various SCMs including slag, limestone, pozzolana, calcined clay, and LC³ systems, delivering early, late, or all-ages strength, improved setting control, and enhanced performance beyond traditional quality improvers.

Strength Improvement

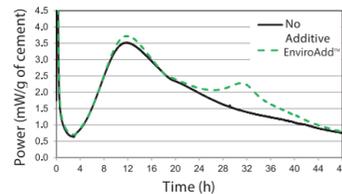
OPC: +16% @ 1 Day



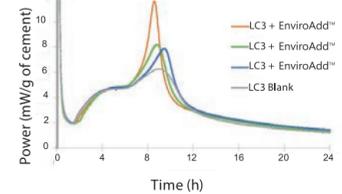
Fly Ash + Limestone: +37% @ 1 Day



Fly Ash: +20% @ 1 Day



Calcined Clay: +38% @ 1 Day



PRODUCT PERFORMANCES:	EnviroAdd® EL	EnviroAdd® LD	EnviroAdd® HWR	EnviroAdd® PF
Cement Flowability / Pack set of cement	██████	██████	██████	██████
Grinding Performance	██████	██████	██████	██████
1-3-day strengths	██████	██████	██████	██████
28-day strengths	██████	██████	██████	██████
Water demand reduction	██████	██████	██████	██████

PERFORMANCE ACTIVATORS

Opteva®

Opteva® solutions provide improvements to cement compressive strengths at early and/or late ages.

Subsequently, they enable a higher clinker replacement without compromising cement performance and characteristics.



- Enhance cement performance & quality
- Enable integration of alternative fuels and SCMs
- Increase strength, accelerate setting time, reduce water demand

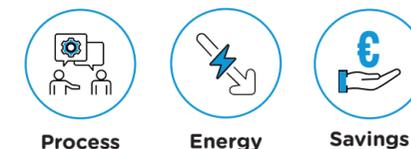
PRODUCT PERFORMANCES:	Opteva® E	Opteva® EL	Opteva® L	Opteva® WR
Cement Flowability / Pack set of cement	██████	██████	██████	██████
Grinding Performance	██████	██████	██████	██████
1-3-day strengths	██████	██████	██████	██████
28-day strengths	██████	██████	██████	██████
Water demand reduction	██████	██████	██████	██████

GRINDING AIDS

Tavero®

Increase mill output and cement production efficiency without additional cost.

Tavero® grinding aids improve cement flowability, reduce handling effort, and contribute to lower energy consumption and CO₂ emissions during grinding.



- Increased production capacity
- Reduced energy consumption
- Reduced distribution costs

Daragrind®

Specially formulated additive for grinding applications in industrial minerals like cement raw meal, coal, pure calcium carbonate, limestone, silica, and quicklime. Daragrind® reduces re-agglomeration and lower pack set tendencies, making storage, transport, and bagging operations smoother.

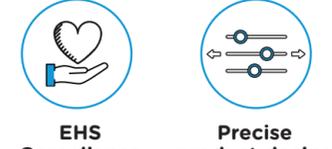
PRODUCT PERFORMANCES:	Tavero® GA	Tavero® GA+
Cement Flowability / Pack set of cement	██████	██████
Grinding Performance	██████	██████
1-3-day strengths	██████	██████
28-day strengths	██████	██████
Water demand reduction	██████	██████

CHROMIUM VI REDUCERS

Synchro®

Reduce water-soluble hexavalent chromium in cement while maintaining performance and compliance.

Suitable for a wide range of cement types and operating conditions, these solutions support safe handling and long-term stability without impacting cement quality.



- EHS Compliance
- Precise product dosing
- Reduction of Cr(VI) below 2 ppm
- Extended shelf life of treated cement
- Chloride-free
- No spotting in concrete

PRODUCT PERFORMANCES:	Synchro® 200	Synchro® 300	Synchro® 320P	Synchro® 119P
Dosage Efficiency	██████	██████	██████	██████
EHS Profile	██████	██████	██████	██████
Shelf Life in Cement	██████	██████	██████	██████
Easy to Use	██████	██████	██████	██████
Key Characteristics	Precise low dosage; compatible with additives	No hazard symbols; long term stability	Dry option; no ADR transport	Dry option; no ADR transport

MASONRY ADDITIVES

Tytron®

Enhance the performance and workability of masonry and multipurpose cements.

Designed to control air entrainment and improve water retention, delivering consistent mortar quality and stable performance.



- Controlled air content
- Improved workability

EXPERT FIELD AND LABORATORY SERVICES

