



Enter the circular economy and its virtuous circle

The Quad® range and its dedicated services allow to optimise production costs and to improve the quality and performance of concrete using complex aggregates.

Quad

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CHALLENGING SANDS

IMPACTS ON CONCRETE PLACING AND PERFORMANCE

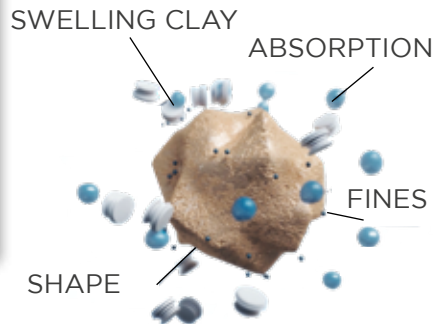
Depleting resources and new types of sand available is turning sand sourcing into a major challenge.

CHRYSO® Quad : A solution for the use of challenging sands.

Characteristics and challenges

Lack of fines

- Compactness – Porosity
- Slump retention – Bleeding, pumpability issues



Excess of fines

- Water / admixture needs
- Slump retention – Pumpability and workability
- Productivity – Mixing time

Specific sand shapes

- Water / admixture needs
- Slump retention – Pumpability and workability
- Workability retention
- Productivity – Mixing time

Swelling clay

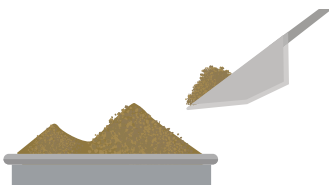
- Water / admixture needs
- Slump retention – Pumpability and workability
- Workability retention
- Productivity – Mixing time

AN INNOVATIVE AND FAST SERVICE TO ANALYSE YOUR SAND

CHRYSO® Quad Lab

Sand characterisation data:

- Fineness modulus
- Type of sand
- Absorption rate



Identification of swelling clay: CHRYSO® Clear Test

A leading-edge tool for analysing sand containing swelling clay: CHRYSO® Clear Test

Field or laboratory testing

Immediate results



A SOLUTION TO CONSTRUCTION AND SUSTAINABLE DEVELOPMENT CHALLENGES

Use of challenging sands

The new CHRYSO®Quad admixture solutions deliver the perfect response to use challenging sands and produce concrete meeting your performance criteria.

Circular economy

The analysis of new supply sources near your manufacturing site allows the implementation of a circular economy approach, by identifying the right admixture solution for the use of local aggregates or recycled concrete aggregates from dismantling.

Reducing production costs

Optimizing production and sand procurement costs by the use of closer resources, while improving the quality and performance of concrete using complex aggregates and sands.





**SAINT-GOBAIN
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