



Enter the
circular economy
and its virtuous circle



Quad



ADMIXTURE SOLUTION
CHRYSO®Quad

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.

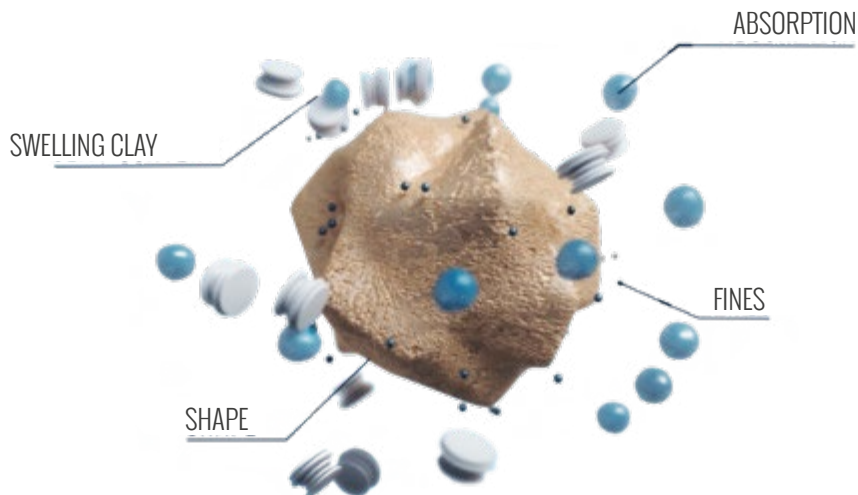
Characteristics and challenges

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

BECAUSE YOUR SAND IS **UNIQUE** WE OFFER A TAILOR MADE SOLUTION

Excess of fines
and/or swelling clay



CLEAR[®]
TECHNOLOGY
By CHRYSO

Lack of fines
and/or unfavourable shape
factors



GRAFT[®]
TECHNOLOGY
By CHRYSO

CHRYSO[®]Quad 700 / 800 / 900 Series

ENSURES EFFECTIVE BINDER DISPERSION

- Enhances the admixture dosage rate (PCP)
- Increases workability retention

REDUCES VISCOSITY

- Improves placing
- Facilitates finishing work

CHRYSO[®]Quad 400 / 500 / 600 Series

IMPROVES CONCRETE COHESIVENESS

- Reduces bleeding and micro-segregation
- Lowers the risk of cracking
- Increases workability retention

SIMPLIFIES FINISHING WORK

- Improves aggregate coating

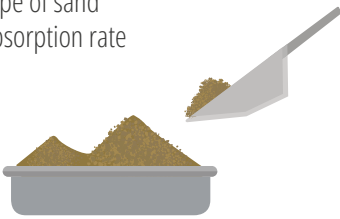


AN **INNOVATIVE AND FAST** SERVICE TO ANALYSE YOUR SAND

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

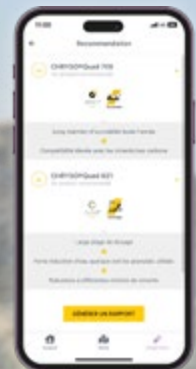


CHRYSO®Quad Lab App

We use the collected data to determine the best **CHRYSO®Quad** solution to **meet your specific requirements**.



NEW SERVICE



CHRYSO®Quad App analyse new supply sources near your manufacturing site and identify the corresponding admixture solution depending on the required performances.

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.





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