

CHRYSO® Optima SL 189

New Generation, high range water reducing/
superplasticizing admixture

DESCRIPTION

CHRYSO® Optima SL 189 is a new generation superplasticizer based on polycarboxylate and modified phosphonate. CHRYSO® Optima SL 189, specifically designed to work with 100% Manufactured Sand in the High Performance Concrete. Its molecular structure enables to the production of cohesive, low viscous concrete with extended workability retention while keeping a very low water/cement ratio in the concrete.

CHRYSO® Optima SL 189 enables the production of flowable and ultra high strength concrete.

BENEFITS

- Extended workability retention of the concrete without compromising the setting time.
- High water reduction ability.
- Ability to fulfill the high water demand in the concrete mix due to various raw material conditions.
- Can be used 100% M/Sand or blend of R/Sand in the concrete mix design.
- Ability to work with high fineness content of the fine aggregates.
- The dispersion properties of CHRYSO® Optima SL 189 allow the user to optimise the cement content when a specified mechanical strength is required.

SPECIFICATIONS

Cl⁻ Ions content	≤ 0,010 %
Product Nature	liquid
Color	Clear-Yellow
Lifetime	12 months
Specific gravity	1,100 ± 0,020
pH	5,00 ± 2,00

Does not contain any purposely added calcium chloride or other chloride based components. It will not promote or contribute to corrosion of reinforcing steel in concrete

PACKAGING

- 20 L bucket
- 200 L drum
- IBC 1000L

METHOD OF USE

- A 1.0% dosage of the product of the weight of cement is commonly used.

CHRYSO® Optima SL 189 can be added to the water before mixing the concrete. However, it can be added to the concrete after mixing.

Because local job conditions vary, please contact your local CHRYSO sales representative for further assistance if using outside recommended dosage ranges.

Dosage :

0.05 to 3.0 kg for 100 kg of cement.

Dosage rates of CHRYSO® Optima SL 189 are dependent upon desired concrete performance characteristics and variables including cement quantity and chemistry, concrete temperature and curing conditions.

Consumption :

CHRYSO® Optima SL 189 is recommended for all concrete mixes where water content, improved cementitious material performance, high workability retention and very high strengths characteristics are desirable.

1. All types of cement
2. Heavy prefabrication
3. High performance concrete, ultra high performance concrete
4. Pre-stressed concrete
5. Ready-mix concrete
6. Concrete of humid, plastic or fluid consistency
7. Self-levelling concrete
8. High strength concrete with workability retention
9. Compatible with Micro silica, GGBS and Fly Ash.
10. Extended workability concrete
11. White or pale concrete

PRECAUTIONS

- Do not mix with other products without advice from manufacturers.
- Store in plastic containers, PVC excluded.

TECHNICAL DATA SHEET

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Chryso
Concrete
Solutions

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SAFETY

Prior to any use, please read carefully the Material Safety Data Sheets.