

CHRYSO® Optima AE 150 EMx

New Generation, high range water reducing/
superplasticizing admixture

DESCRIPTION

CHRYSO® Optima AE 150 EMx is enhanced by EnviroMix® technology which combines CHRYSO's latest proprietary polymers along with most advanced developments in terms of hydration rate enhancement.

CHRYSO® Optima AE 150 EMx is especially recommended for concrete requiring high early age and long term strengths, for readymix and precast applications which include high volume fly ash (PFA) and Slag (GGBS).

CHRYSO® Optima AE 150 EMx enables the production of concrete with very low water-cement ratio.

CHRYSO® Optima AE 150 EMx enables the production of self-leveling concrete.

BENEFITS

- **CHRYSO® Optima AE 150 EMx** provides a cost effective means to produce user friendly high volume fly ash and slag concrete offering normal setting characteristics, controlled heat of hydration, improved workability and finish, enhanced strength development and superior hardened concrete properties.
- Dramatically increases early compressive and flexural strengths without detriment to ultimate strengths.
- Thanks to its short term performances, **CHRYSO® Optima AE 150 EMx** allows either to reduce the time before demolding or to save energy by decreasing temperature or time of steam curing.
- Improves the efficiency of cement in concrete, effectively reducing the quantity of cement required to achieve specified concrete properties. Better cement efficiency means **less CO² Pollution**.

PACKAGING

- IBC 1000L
- Bulk delivery on request

FIELDS OF APPLICATION

CHRYSO® Optima AE 150 EMx is recommended for all concrete mixes where the usage of high volume fly ash and slag, without affecting the setting time and early strength and match the normal concrete properties.

- High volume Fly Ash Concrete (HVFAC)
- High volume Slag Concrete (HVSC)
- All types of cement
- Heavy prefabrication
- High performance concrete
- Pre-stressed concrete
- Pre-Cast concrete
- Concrete of humid, plastic or fluid consistency
- Self-levelling concrete
- Compatible with Micro silica and other cementitious materials

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INDICATIVE INFORMATION

| | |
|------------------|-----------------------|
| Product Nature | liquid |
| Color | Clear to Light Yellow |
| Lifetime | 12 months |
| Specific gravity | 1,090 ± 0,020 |
| pH | 6,00 ± 2,00 |

Cl⁻ ion content: nil to EN 934 and BS 5075.

METHOD OF USE

The optimum dosage of **CHRYSO® Optima AE 150 EMx** can only be established after trial tests, considering local conditions, materials and specification requirements.

CHRYSO® Optima AE 150 EMx can be added to the mixing water or after 50 - 70% addition of water. Should the product be added to fresh concrete, into the mixing truck, it is necessary to mix at high speed at 1 minute per m³ of concrete (at least 6 minutes).

- Between 0.5 and 3.0 kgs per 100 kg of total cementitious materials.
- Dosage rates of **CHRYSO® Optima AE 150EMx** are dependent upon desired concrete performance characteristics and variables including cement quantity and chemistry, concrete temperature and curing conditions.
- Because local job conditions vary, please contact your local CHRYSO sales representative for further assistance if using outside recommended dosage ranges.

PRECAUTIONS

Compatibility:

CHRYSO® Optima AE 150 EMx is compatible with all types of Portland cement, class C and F fly ash, GGBS, micro silica, fibers and approved air entraining admixtures.

- Store away from frost. Use **CHRYSO® Optima AE 150 EMx** at a temperature above 0°C.
- Should the product freeze, its properties can be recovered after thawing and agitating thoroughly.
- CHRYSO® Optima AE 150 EMx** is compatible with other CHRYSO admixtures when used in the same concrete mix, but should be added to the mix separately and must not be mixed prior to addition.

NORMATIVE AND REGULATORY INFORMATION

- This product conforms to ASTM C 494, and BSEN 934-2

SAFETY

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