

POLARSET® NC 250

Early strength enhancing admixture

DESCRIPTION

POLARSET® NC 250 is an early strength enhancing admixture for concrete. In addition to enhanced early strength growth, POLARSET® NC 250 accelerates the setting time of concrete. In concrete mixes, POLARSET® NC 250 accelerates the chemical reaction between portland cement and water, speeding up the formation of C-S-H gel.

This accelerated gel formation reduces the setting time of concrete, compensating for the slow setting effects of cold weather and concrete containing SCM, and contributes to the development of higher early strengths. POLARSET® NC 250 does not contain added chloride. POLARSET® NC 250 contains triethanolamine, please refer to method of use section. POLARSET® NC 250 complies with AS 1478.1-2000, Type SAc.

BENEFITS

- Low Carbon Footprint - allows better utilization of mixes incorporating high volumes of GGBS
- Increased production cycles
- Fast track finishing operations, form removal and early de-moulding, optimising costs
- Reduces heat curing
- Allows faster setting times for speed of production

APPLICATION

- Winter concreting for early strengths
- Prestressed and precast concrete to reduce cycle times
- Concrete with SCM (Supplementary Cementitious Materials)

INDICATIVE INFORMATION

Product Nature	Liquid
Color	Red
Lifetime	12 months
Specific gravity (kg)	1,250 ± 0,010
pH	9,50 ± 0,50

PACKAGING

- Bulk
- IBC 1000L
- 205 L Drum
- Pail

SAFETY

Prior to any use, please read carefully the Safety Data Sheet (SDS).

METHOD OF USE

Dosage :

The dose rate of POLARSET® NC 250 depends on the specific job conditions, local materials, degree of early strength development required and set acceleration needs. Typical dosage rates are 1,000 to 4,000 ml / 100 kg of cement. Trial mixes should be conducted in order to determine specific dose rate required for the desired performance.

Further information:

At the compliance dose rate of 2,000 ml / 100 kg total cementitious, the triethanolamine level is less than 0.025%.

Equipment :

Please contact your local Chryso representative for further information regarding the dispensing equipment for this product.

COMPATIBILITY

- Air-entrainers such as Chryso®Air
- Water reducers such as Chryso®WRDA
- Mid-range water reducers such as Chryso®Mira
- High-range water reducers such as Chryso®Adva and Chryso®AdvaCast

PRECAUTIONS

Protect from freezing. Once frozen, the product should be thawed out slowly and remixed prior to use.