

POLARSET® NC 300

Early strength enhancing admixture

DESCRIPTION

POLARSET® NC 300 is an early strength enhancing admixture for concrete. In addition to enhancing early strength growth POLARSET® NC 300 also accelerates the setting time of concrete. POLARSET® NC 300 does not contain any added chlorides.

In concrete mixes, POLARSET® NC 300 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 300 complies with AS 1478.1-2000, Type SAc.

BENEFITS

- Low Carbon Footprint - allows better utilization of mixes incorporating high volumes of GGBS
- No added chlorides
- Non-corrosive accelerator
- Increases production cycles
- Accelerates growth of concrete strength for 8 to 16 hours
- Reduces setting time of concrete by 1 to 3 hours
- Fast track finishing operations, form removal and early de-moulding, optimising costs
- Reduces heat curing
- Reduces the number of passes required to achieve a desired concrete finish

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)	1,460 ± 0,020
pH	8,50 ± 1,00

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 300 will depend on the specific job conditions, on local materials and on the degree of early strength development required and set acceleration needs. Typical dosage rates are 500 to 4,000 ml / 100 kg total cementitious. Higher dose rates can be considered for specific requirements. Trial mixes should be conducted to determine specific dose rate required for the desired performance.

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.