TECHNICAL DATA SHEET

Chryso Concrete Solutions

29/10/2026

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. 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 does not contain added chloride. POLARSET® NC 300 contains triethanolamine and complies with AS 1478.1-2000, Type SAc.

BENEFITS

- Low Carbon Footprint - allows better utilization of mixes incorporating high volumes of GGBS
- Increases production cycles
- Accelerates growth of concrete strength for 8 to 16 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 :
POLARSET® NC 300 dosage is typically in the range of 500 to 4,000 ml / 100 kg total cementitious. Laboratory and plant trials are recommended to determine the most effective dosage for specific applications.

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.

The information contained in this document is given to the best of our knowledge and is the result of extensive and controlled testing. However,it cannot under any circumstances be considered as a warranty involving our liability in the case of misuse. Tests should be con ducted before the product is used to ensure that the methods and conditions of use of the product are satisfactory. Our specialists remain at the disposal of customers if they require help with the application of the product for their specific needs.

chryso SAINT-GOBAIN