

POLARSET® ES

Chloride-free set accelerator
Set accelerating admixture for concrete according to
EN 934-2:T6

Description

POLARSET ES is liquid set accelerating admixture for concrete and mortar.

Mode of Action

POLARSET ES shortens the setting time of concrete, compensates for the set-slowing effects of cooler weather conditions, and contributes to the development of higher early strengths. POLARSET ES can be used at temperatures above -15°C . The constituent materials should be heated, and the temperature of the fresh concrete should be higher than $+10^{\circ}\text{C}$. Only non-frozen aggregates should be used. The substrate, rebar, and molds should also not be frozen, and the concrete must be protected against frost.

Dosing and Special Information

Best results are obtained when added with the gauging water, or as the last component of the mix, and then mixed for a minimum of an additional 45 seconds.

Preliminary tests according to official national standards are always required before use!

Never pre-mix POLARSET® ES with any other admixture before they are dosed into the concrete!

Technical Data

Form	Fluid
Colour	Green
Density	approx. $1.315 \pm 0.06 \text{ g/cm}^3$
pH-value	9.0 ± 1.0
Total chloride content	$< 0,10 \text{ m.-%}$
Alkali content	$< 0,50 \text{ m.-%}$
Storage	Keep original containers closed, protect from excessive heat and frost. Once frozen, material cannot be used.
Recommended Dosage	0.50–5.50 m.-% by cement mass (maximum dosage – 9.00 m.-% by cement mass)
Physiological effect	May irritate skin and eyes; see SDS.
Shelf life	approx. 1 year in closed original containers

gcpat.com | Tel: +49 52 81 77 04-00 Fax: +49 52 81 77 04-99

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GCP Applied Technologies Inc., 62 Whittemore Avenue, Cambridge, MA 02140 USA.
Pyrmonter Straße 56 32676 Lügde

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