

## TECHNICAL DATA SHEET



**Chloride-Free Accelerator  
For Setting, Hardening,  
& Water Reducing.**



## DESCRIPTION

**SM5® PC31A** is a chloride-free accelerator for setting and hardening, tailored for special application concretes. When added to the mixing water, it enables fast form removal and accelerates the construction process, suitable for both prefabrication and on-site casting.

## PROPERTIES

Using **SM5® PC31A** in the proportion of 2% to 3% of the cement mass significantly reduces the setting time by 40% to 60% at +5°C, compared to the reference test. At a proportion of 3.5% of the cement mass, mechanical strength remains unchanged, and the setting begins as it would at normal temperatures (20°C). This product is beneficial for speeding up formwork rotation and is compatible with heated concrete.

## CHARACTERISTICS

**Applicable Standards:** ASTM C494 Type C.

**Instructions for Use:** Mixing

Add **SM5® PC31A** directly to the mixing water, which should be reduced by 3% to 5%.

## PRECAUTIONS

Never mix concrete when the aggregates are frozen.  
In cold weather, ensure the cement content is not less than 300 kg/m<sup>3</sup>.

## TESTS

It is recommended to carry out preliminary tests before using the product on site.

## DOSAGE

The recommended dosage is between 2% and 3% of the cement weight.

## PACKAGING

**SM5® PC31A** is available in 1000-liter totes, 200-liter drums, and 25-liter gallons.

## STORAGE

Store **SM5® PC31A** for up to 1 year from the manufacturing date, under cover, out of direct sunlight, and protected from extreme temperatures.

## HEALTH & SAFETY

If exposed to frost, the product will regain its properties after gradual thawing and homogenization by agitation. In case of contact with skin or eyes, rinse thoroughly with water. If irritation persists, seek medical attention. If swallowed, do not induce vomiting and seek medical attention immediately.

## QUALITY STATEMENT

All products are manufactured in accordance with our internal QA/QC program and quality management system to ensure consistency and quality.

## DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control. It is recommended to verify with the company that the product is suitable for the intended use and that this Data Sheet is the most recent version. The company reserves the right to modify it without prior notice. Technical characteristics are provided for guidance only. For more information, please contact the company's office in your location.

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## FOR TECHNICAL SERVICES

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