

PRODUCT DATA SHEET

ART-CS

Retarder

Description

ART-CS is a starch-modified concrete retarder independently developed and patented by ARIT. This product significantly prolongs the initial setting time of concrete through modified starch technology, while ensuring that the time difference between initial and final setting remains short. Additionally, ART-CS effectively reduces the loss of concrete slump without adversely affecting the early strength development of concrete. It is particularly suitable for concrete construction scenarios requiring high fluidity and long workability, such as pumped concrete, slipform construction, large volume concrete, and layered casting. Furthermore, ART-CS is also highly suitable for long-duration or long-distance concrete transport, as well as construction in high-temperature seasons, providing increased flexibility and reliability for construction operations.

Main benefits/Characteristics

- Greatly prolongs the setting time of the concrete mixture, reducing the rate of hydration heat release.
- Significantly increases the viscosity of the concrete mixture, effectively improving its workability and preventing segregation and bleeding.
- Provides resistance to mud, accommodating a broader range of materials.
- Does not affect the plasticizing and retention properties of concrete, with no adverse effects on the later strength of the concrete.
- Dissolves quickly and can be used in combination with other concrete admixtures.

Applications

Pumped concrete

Slipform construction concrete

Mass concrete

Layered casting concrete

Physical and chemical indicators

Items	Performance
Appearance	Reddish-brown transparent liquid
Solid content/%	80±5
density/g/cm ³	1.5±0.2
Alkali content (as Na ₂ O)	≤1.0%
Chloride content	≤0.01%

Recommended Dosage

0.01% to 0.5% weight of binder

Pre-testing must be performed to determine the exact dosage rate

Packaging

Drums or flowbins for customer demand

Storage

Store in undamaged, original sealed packaging in dry conditions.

Protect product from direct sunlight

A minimum shelf life of 12 months under normal storage conditions. Shelf life may be greater than stated depends on storage conditions.

LEGAL NOTES

It is prohibited to retain or disclose samples of the product without the company's permission.

In addition to the product quality itself, the actual performance also depends on other factors.

If there are factors beyond our control, we cannot guarantee the performance of the product.

Users are requested to strictly follow the technical guidelines and product instructions for use. The company shall not be held liable for any consequences resulting from unauthorized changes to the product's usage without the company's authorization.