

PRODUCT DATA SHEET

ART- AC

Accelerator

Description

ART-AC is an admixture that can accelerate the early strength development of concrete. It can significantly shorten the setting time without affecting the workability of the concrete, thereby greatly speeding up the early strength development of the concrete mixture.

Main benefits/Characteristics

- **Excellent Early Strength Effect:** Increases 1-day strength by over 35%, with no strength regression at 28 days; significantly reduces the setting time of concrete by 2 - 8 hours.
- **Environmental Friendliness:** Non-corrosive to steel, non-toxic, non-flammable, non-explosive, and pollution-free.

Applications

- Precast Concrete
- Prestressed Concrete
- Steam-Cured Concrete
- Low-Temperature Construction Concrete

Physical and chemical indicators

Items	Performance
Appearance	Milky-white suspension
Solid Content /%	12±1.0
pH	11.0±1.0
Density /g/cm ³	1.05±0.02

Application Case

- Low-Temperature Construction Concrete

A commercial concrete company required that cast-in-place C30 concrete in an environment of -5°C to 5°C should be able to be demolded within 18 to 24 hours. The use of ART-AC accelerator fully met the requirement and helped the construction unit shorten the construction period.

Usage Instructions

- The recommended effective solids content is 0.10 % - 2.00 % of the total cementitious materials; the exact dosage must be predetermined through trial tests according to the raw materials, job-site conditions, construction codes, and technical requirements.
- Any change in materials or environmental conditions may also cause the dosage to vary within a certain range, so new tests are required to re-establish the optimum dosage.

Complies with the Following Standards

GB/T 8076-2008

ASTM C494 TYPE C

EN934-2

Packaging

IBC tank/liquid bag/tank truck

Storage

- It should be stored in a cool and dry place, avoiding direct sunlight, and kept in a dedicated warehouse or a fixed location.
- The effective storage period is 1year. It can still be used after being tested and verified to be qualified if it exceeds the time limit.

Precautions

- When changing the type of cement or using newly delivered cement, a compatibility test should be conducted.
- Do not use in combination with naphthalene-based admixtures. When using in

combination with other admixtures, compatibility tests should be performed.

- Strictly follow the construction specifications during application.
- The product information is only used to describe the product's characteristics and functions, and it is not a guarantee. Users are also required to carefully test the product's functions and its suitability. The functions and suitability of the product must be verified through testing conducted by qualified professionals.

Legal Notes

- Retaining or disclosing product samples without the company's explicit permission is strictly prohibited.
- In addition to the product quality itself, the actual performance also depends on other uncontrollable factors. If there are uncontrollable factors, company cannot guarantee the performance of the product.
- Users are requested to strictly follow the technical guidance and product instructions for use. The company shall not be liable for any consequences resulting from unauthorized changes to the product usage method without the company's authorization.