

## PRODUCT DATA SHEET

# ART-VR

## Viscosity Reducer

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### Description

ART-VR is a highly efficient cement additive developed by ARIT. It leverages its molecular structure to enable controllable thixotropic properties, reduce plastic viscosity and yield stress, and significantly improve the fluidity and workability of cement slurry. This product is suitable for the preparation of various high-performance concretes, optimizing the cohesiveness of the concrete. It exhibits outstanding performance particularly in projects requiring high fluidity and strength.

### Main benefits/Characteristics

- Reduces the yield stress of concrete, enhances its flowability, and makes the concrete easier to mix and pour.
- Highly adaptable to a variety of cement specifications and models as well as mineral admixtures.
- Suitable for construction under various climatic conditions, improving the plasticity and stability of the concrete.
- Significantly reduces the plastic viscosity of the concrete mix at extremely low water usage levels.

## Applications

- Concrete mixtures formulated with high specific surface area binder systems (nano-silica, ultrafine cement)
- High-performance concrete mixtures with strength grades exceeding 30 MPa
- Self-compacting concrete and self-leveling concrete
- Ultra-high performance concrete (UHPC)
- Concrete with ultra-long pumping distances

## Physical and chemical indicators

Items	Performance
Appearance	transparent liquid
pH	6.5±1
Density	1.05±0.05 g/cm <sup>3</sup>
Viscosity	50mPa.s-100mPa.s
Water content	≤70%

## Recommended Dosage

The recommended dosage is 0.05%-0.10% of the binders weight.

Adjust the dosage appropriately based on the actual construction environment and material conditions.

## Packaging

IBC tank/liquid bag/tank truck

## Storage

Storage: Should be stored in a cool, dry place, away from direct sunlight.

Shelf Life: Under unopened and proper storage conditions, the shelf life is two years.

## **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.