

PRODUCT DATA SHEET

ART-M233

Slump Retention Admixture

Description

ART-M233 is a slump retention type polycarboxylate superplasticizer which significantly extends the workable time of the concrete and is characterized by a gentle and gradual release process. It can work in extreme high-temperature weather to some extent. It starts with no dispersing ability and as mixing time extends it will function for more than 5 hours. With good bubble adjustment capability, it greatly enhances the mechanical and durability of concrete.

Main benefits/Characteristics

ART-M233 uses a special controlled radical polymerization process, which allows the polycarboxylic acid-based high-performance water-reducing agent molecules to have a regular arrangement of all groups on the main chain.

- Specifically designed for summer and tropical climates (above 40° C)
- Compatible with other dispersants, retarders, air entrainers, early strength agents, and other additives to achieve different effects
- Suitable for Portland cement and Sulfoaluminate cement
- Excellent slow-release ability with low sensitivity
- Significant reduction in yield stress of mortar mixtures
- Good bubble adjustment ability
- Increased cohesion and water retention of mixtures
- Substantial reduction in shrinkage of mortar

- Improved durability of hardened mixtures

Applications

- Ready-mixed concrete for tropical environments.
- Concrete mixtures with ultra-long operation time requirements.
- Commercial concrete, pumped concrete.
- Bridge, highway, and railway concrete.

Physical and chemical indicators

Items	Performance
Appearance	Colorless or light yellow transparent liquid
Solid Content /%	44.5±0.5
pH	6.0±1
Alkali content (as Na ₂ O)	≤1.0%
Chloride content	None

Recommended Dosage

0.2% to 2.0% 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.