

PRODUCT DATA SHEET

ART-LGY

Surplus Slurry Modifier

Description

ART-LGY is an organic – inorganic composite modifier engineered for slurry recycling. It keeps the mix stable and workable for 0 – 24 h. By jointly tuning dispersion and stability, the additive retards particle flocculation and performance loss, cuts the risk of segregation and settlement during repeated reuse, and so sustains continuous placement while maximizing material efficiency.

Main benefits/Characteristics

- Workability can be tuned to match production pacing
- Rapidly disperses slurry, boosting pumping efficiency
- Cuts air bubbles and prevents segregation, keeping recycled slurry stable

Applications

- Standard modification

Keeps slurry recyclable and workable for 2 – 6 h, matching normal casting cycles.

- Long-life modification

Designed for single-shift pile production, maintaining workability beyond 6 h so the same slurry can stay in service.

Physical and chemical indicators

Items	Performance
Ordinary modifier-active solids(%)	32±1

Long-acting modifier-active solids(%)	30±1
Ordinary modifier-chloride-ion content(%)	≤0.01
Long-acting modifier-chloride-ion content(%)	≤0.01
Standard modifier density(%)	1.05 – 1.10
Long-acting modifier density(%)	1.05 – 1.10

Application Case

- Residual-slurry recycling system

In a Suzhou pile plant, ART-LYG modifier was fed into the leftover-slurry loop. It tamed severe concentration swings and rapid set, pushing reuse rate above 95 % and cutting binder demand by 20 kg per cubic metre.

Usage Instructions

- Standard modifier dosage: 0.1 %–0.2 % of total slurry mass.
- Long-acting modifier: 0.5 %–0.7 % in summer, 0.3 %–0.7 % in winter.
- Exact dosage must be fixed by trial tests for the given raw materials, job conditions, codes and specs.
- Any change in materials or environment can shift the optimum dosage; re-test before use.

Complies with the Following Standards

GB/T 8066-2008

Packaging

IBC Tank or Flexitank for customer demand

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 6 months. 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.