

Calcium Lignosulfonate — Construction Grade

Lignin-based water reducer and set retarder for ready-mix concrete, precast and masonry mortars

- GAC-CaLS-Construction
- Construction
- Water Reducer
- Set Retarder

PRODUCT DESCRIPTION

Construction Grade Calcium Lignosulfonate Powder is a light brown, lignin-based water reducer and set retarder for concrete. It improves the workability and pumpability of concrete mixtures, reduces water demand by up to 12%, retards initial set without affecting strength gain, and improves cohesion while limiting segregation.

TYPICAL PHYSICAL & CHEMICAL PROPERTIES

PARAMETER	TYPICAL VALUE
Form	Powder
Bulk Density	0.8 g/cm3
Moisture Content	5% max
pH (5% solution)	4 – 6

Values represent typical production results and are provided for reference only; they do not constitute a binding product specification. Please refer to the Certificate of Analysis (COA) accompanying each shipment for batch-specific results.

APPLICATIONS

- Improves workability and pumpability of concrete mixtures
 - Reduces water demand by up to 12%
 - Retards initial set without affecting strength gain
- Improves cohesion and limits segregation
 - Typical applications: ready-mix concrete, precast, pavers, masonry mortars
 - Recommended dosage: 0.20-0.30% by weight of cement (higher dosages may retard set beyond specified limits)

PACKAGING, HANDLING & STORAGE

Packaging	25 kg woven bags with polyethylene liner; 500 kg or 600 kg jumbo bag (FIBC)
Custom Packaging	Available according to customer requirement
Storage	Store in a dry location in original packaging
Shelf Life	12 months from date of manufacture
Compatibility	Pre-test for intended use; may cause unwanted effects in combination with other admixtures