



Control™ GB-800 Polycarboxylate Ether (PCE)

CAS No.:

Formula:

DESCRIPTION

Control™ GB-800 is a high-performance polycarboxylate superplasticizer in powder form, engineered specifically for gypsum-based formulations such as wallboard, plasters, and joint compounds. Through molecular structure optimization, it provides superior dispersion, enhanced fluidity, and controlled setting behaviour ensuring lighter, stronger, and smoother gypsum boards with consistent production efficiency.

KEY FEATURES

- Rapid and efficient plasticizing action in gypsum systems
- Excellent flow retention and workability without excessive retardation
- High compatibility with gypsum retarders, foam stabilizers, and starch binders
- Reduces water demand, enabling higher board strength and improved surface finish
- Consistent dispersion performance across variable raw-material quality

APPLICATIONS

- Gypsum wallboard core formulations
- High-flow gypsum plasters and jointing compounds
- Premixed dry-mix mortars containing gypsum binders
- Hybrid cement-gypsum composites for prefabricated systems

TYPICAL SPECIFICATIONS

Parameter	Specification
Appearance	White powder with good fluidity
Solid Content	≥ 98%
Active Content	≥ 92 %
Bulk Density	500 – 750 g/L
Particle Size (D ₅₀)	70 – 100 µm
pH (1 % solution)	7.0 – 9.0



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USAGE GUIDELINES

- Control™ GB-800 should be dry-blended homogeneously with other components of the gypsum formulation.
- Recommended Dosage: 0.015 – 0.45 % by weight of total binder (gypsum + cement).
- Exact dosage should be determined through laboratory evaluation to optimize flow, set time, and strength for local raw-material conditions.

PACKAGING

- 25 kg multi-ply paper bags with inner polyethylene liner.
- Alternative packaging available upon request.

STORAGE

Store in a cool, dry, well-ventilated area. Protect from moisture and direct sunlight.

Shelf life: 12 months in unopened original packaging.

SAFETY & HANDLING

Non-hazardous under normal handling. Avoid inhalation of dust and contact with eyes or skin.

Refer to SDS for detailed health and safety information.